**Energy Utilities & Mining** 

TA-8727 REG: Study for
Power Sector Financing
Road Map
Mobilizing Funds for Building
Energy Assets

Strictly Private and Confidential **Draft** 

March 2016



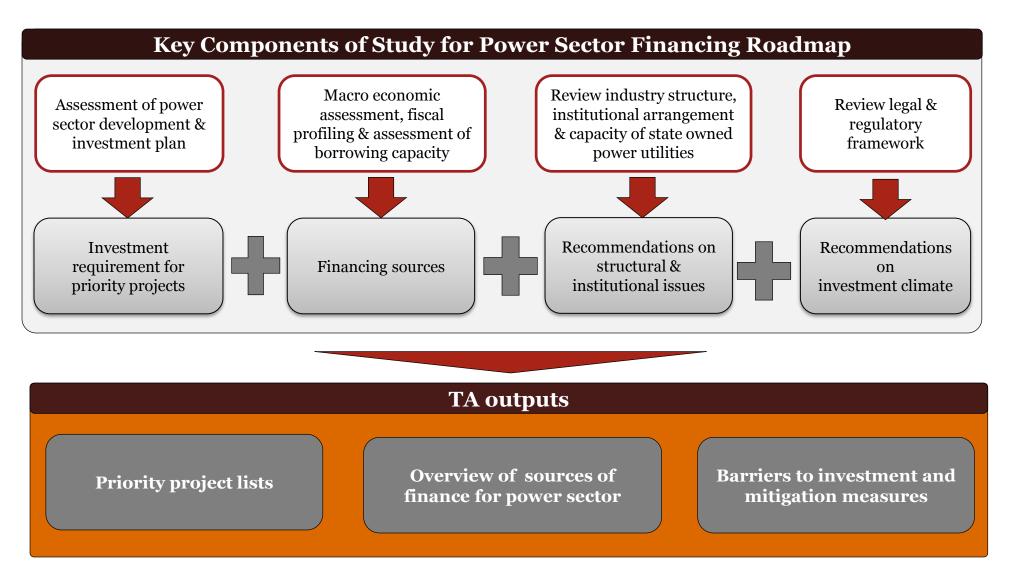
#### Agenda

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## Section 1 **Background**

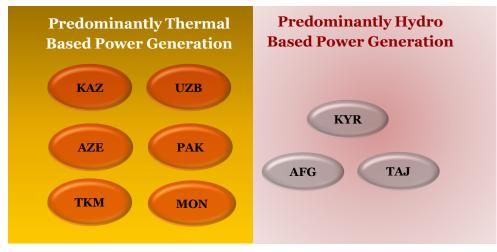
Section 1 – Background Draft

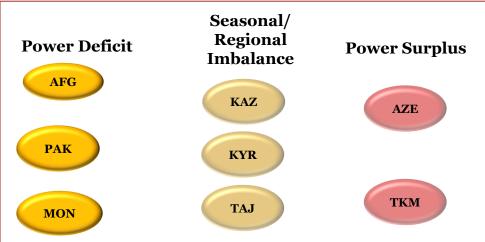
#### Key components and envisaged outputs



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#### Regional overview (1/2)

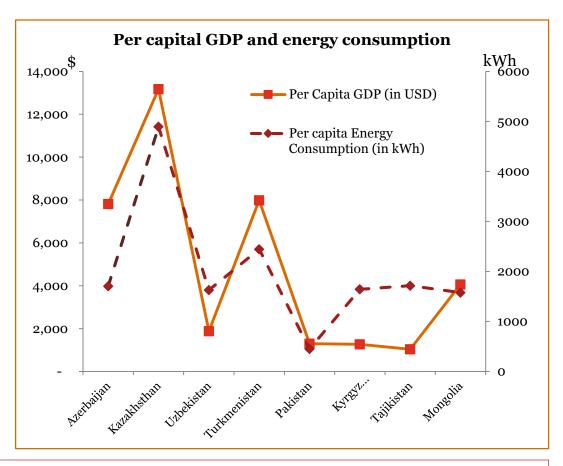




- Diverse energy mix across the countries.
- Mainly fossil-fuel based generation: Pakistan, Azerbaijan, Mongolia, Kazakhstan, Uzbekistan and Turkmenistan.
- Primarily hydro: Tajikistan, Kyrgyz Republic and Afghanistan.
- Upstream countries release water to downstream countries during summer in exchange of power during winter.
- Kyrgyz Republic & Tajikistan: power surplus during summer but shortages during winter.
- Uzbekistan is faced with shortages due to ageing of key power plants.

#### Regional overview (2/2)

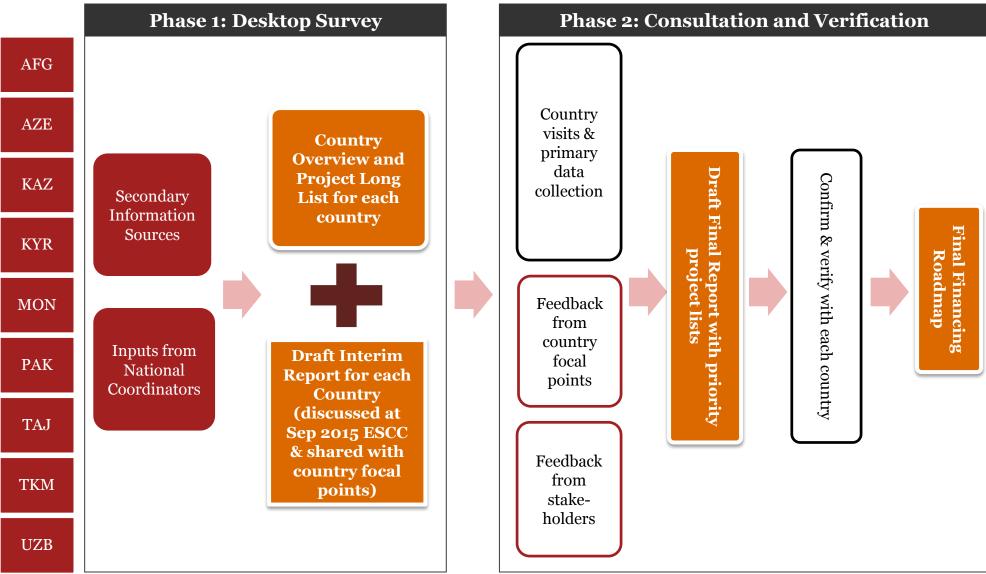
| Country            | GDP (USD<br>Mn) | Population<br>(Mn) | Installed<br>Capacity<br>(MW) |
|--------------------|-----------------|--------------------|-------------------------------|
| Afghanistan        | 20,840          | 31.3               | 522                           |
| Azerbaijan         | 75,198          | 9.5                | 7,348                         |
| Kazakhstan         | 221,500         | 17.4               | 20,844                        |
| Kyrgyz<br>Republic | 7,404           | 5.8                | 3,642                         |
| Mongolia           | 12,016          | 2.9                | 1,250                         |
| Pakistan           | 246,900         | 185.1              | 22,862                        |
| Tajikistan         | 9,242           | 8.4                | 5,190                         |
| Turkmenistan       | 47,932          | 5.2                | 4,152                         |
| Uzbekistan         | 62,640          | 30.7               | 12,510                        |
| Total              | 703,672         | 296.3              | 78,320                        |



Large availability and regional diversity of resources provides an opportunity to develop a regionally coordinated approach (in line with CAREC EWP (2016-2020) objective of Regional Integration) to ensure energy self-sufficiency of the CAREC countries with economic benefits through enhanced regional cooperation.

Section 1 – Background Draft

#### Our approach



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## Section 2 Priority Project Selection Criteria

#### Key considerations for project prioritization

Secondary and Primary Sources Consulted

National Policy/
Power Sector
Development
Plan

Regional Power Sector Master Plan Investment plan of utility and regional authority

Information collected during country visit and feedback from other stakeholders

Basis of information analysis

National objectives and priorities

Current and projected demand supply situation

Regional objectives and trading potential

Project prioritization criteria for Generation (including RE), transmission and distribution projects

#### Categories of projects considered

#### **Generation projects**

- Rehabilitation of existing power plant
- New power plants to replace the existing ones that can not be rehabilitated in isolated or inter-connected mode.
- New plants that will be required to meet the demand growth both in isolated and interconnected mode

#### Transmission & distribution projects

- Rehabilitation/ reconstruction of existing transmission lines and substations to ensure availability of existing network.
- New transmission lines to remove bottlenecks.
- New transmission line and sub-station to connect new genreating stations.
- Projects for inter-regional power trade.

<sup>\*</sup> Types of projects NOT considered in the list of priority projects are projects that have achieved financial closure, captive power projects and generation projects < 100 MW

#### Project selection criteria – Generation projects

| Criteria  | AFG      | AZE | KAZ | KYR      | MON | PAK | TAJ | TKM | UZB |
|---|----------|-----|-----|----------|-----|-----|-----|-----|-----|
| Improving diversity in generation mix   | ✓        | ✓   | ✓   | ✓        | ✓   | ✓   | -   | -   | ✓   |
| Ensuring energy<br>adequacy   | ✓        | ✓   | ✓   | ✓        | ✓   | ✓   | ✓   | -   | ✓   |
| Socio-economic considerations (increasing energy access, reducing energy poverty, etc.) | <b>√</b> | -   | -   | <b>√</b> | ✓   | ✓   | ✓   | -   | -   |
| Improving efficiency<br>and limiting new<br>investments                                 | ✓        | -   | ✓   | ✓        | -   | -   | -   | ✓   | ✓   |
| Sustainability (reducing carbon intensity and energy intensity of GDP)                  | -        | ✓   | ✓   | -        | -   | -   | -   | ✓   | ✓   |
| Avoiding Water Spillage   | -        | -   | -   | ✓        | -   | -   | ✓   | -   | -   |
| Improving distribution of energy resources  | -        | -   | ✓   | -        | -   | -   | -   | -   | -   |
| Facilitating power export to neighbouring countries                                     | -        | -   | -   | -        | -   | -   | -   | ✓   | -   |

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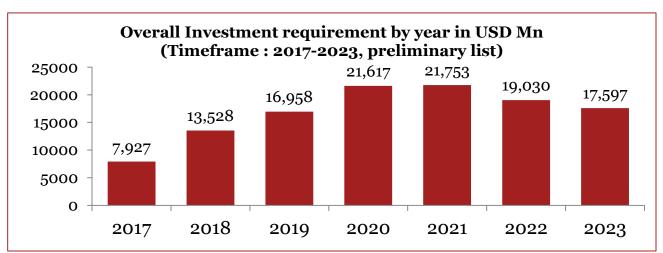
## Project selection criteria – Transmission and distribution projects

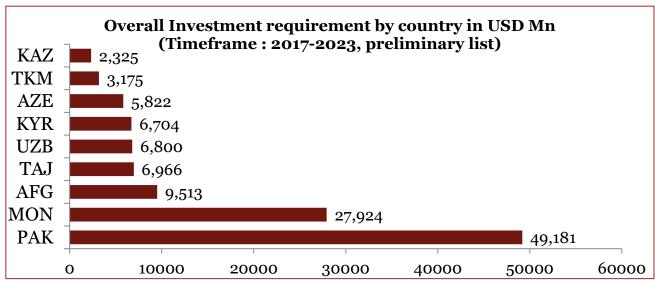
| Criteria  | AFG      | AZE | KAZ      | KYR | MON | PAK | TAJ      | TKM | UZB      |
|---|----------|-----|----------|-----|-----|-----|----------|-----|----------|
| Reducing T&D losses/ Rehabilitation of existing infrastructure                              | ✓        | ✓   | ✓        | ✓   | ✓   | ✓   | ✓        | ✓   | ✓        |
| Improving system flexibility and reliability  | <b>√</b> | ✓   | <b>√</b> | ✓   | -   | -   | <b>√</b> | 1   | -        |
| Regional<br>Connectivity  | ✓        | -   | ✓        | ✓   | -   | -   | ✓        | ✓   | -        |
| Evacuation to key demand centers/ improving energy access                                   | -        | ✓   | -        | -   | ✓   | ✓   | -        | -   | ✓        |
| Strengthening intra-<br>country transmission<br>/Creating a unified<br>national tr. network | -        | -   | -        | -   | ✓   | -   | -        | -   | <b>√</b> |

# Section 3 Investment Requirement for the Priority Projects

#### Estimated investment requirement for 2017-2023

Summary (1/3) – based on preliminary priority lists





- Total estimated investment requirement for priority projects is USD 137,055 mn.
- Estimated investment requirement between
  2017 and 2023 is
  USD 118,410 mn.
- List of priority projects and investment requirement is to be verified by the respective governments.

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PwC

Source: PwC Analysis

#### Estimated investment requirement for 2017-2023

Summary (2/3) – based on preliminary priority lists

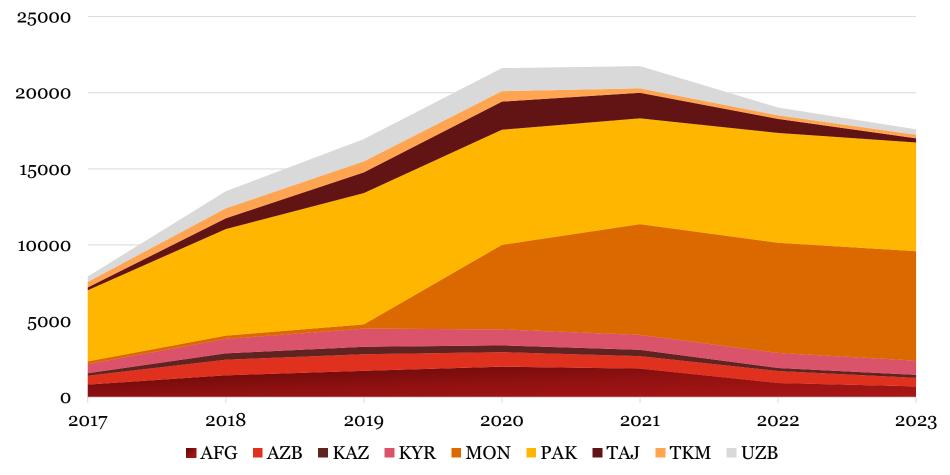
| (in USD Mn) | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------|------|------|------|------|------|------|------|
| AFG         | 827  | 1434 | 1730 | 2008 | 1874 | 927  | 713  |
| AZE         | 583  | 1028 | 1092 | 949  | 821  | 794  | 555  |
| KAZ         | 164  | 419  | 488  | 445  | 417  | 197  | 197  |
| KYR         | 603  | 948  | 1191 | 1056 | 980  | 989  | 938  |
| MON         | 174  | 216  | 279  | 5551 | 7276 | 7238 | 7189 |
| PAK         | 4675 | 7001 | 8629 | 7564 | 6953 | 7217 | 7142 |
| TAJ         | 183  | 706  | 1359 | 1846 | 1678 | 921  | 272  |
| TKM         | 360  | 655  | 720  | 688  | 287  | 233  | 233  |
| UZB         | 359  | 1121 | 1469 | 1512 | 1466 | 515  | 359  |

Source: PwC Analysis

#### Estimated investment requirement for 2017-2023

Summary (3/3) – based on preliminary priority lists

#### Year-wise share of investment requirement by country,2017-2023



Source: PwC Analysis

## Estimated investment requirement for 2017-2023 Assumptions – phasing of investments by project type

| Year→  | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | Remarks  |
|--|------|------|------|------|------|------|------|------|--|
| TPPs, Mid-<br>Large Size<br>HPPs (200-800<br>MW)               | 10%  | 10%  | 15%  | 15%  | 12%  | 15%  | 13%  |      | Average duration of around 7 years for<br>construction of Coal based TPPs and Mid-<br>Large HPPs         |
| R&M of generation projects, RE projects, Transmission Projects |      | 15%  | 25%  | 30%  | 30%  |      |      |      | Average duration of around 4 years for completion of R&M projects, RE projects and Transmission Projects |
| Very Large<br>HPPs   | 10%  | 10%  | 15%  | 15%  | 12%  | 15%  | 13%  | 10%  | Only investment requirement levels between 2017 and 2023 have been considered Average duration-8 years   |
| Distribution<br>Projects<br>(Metering)                         | 10%  | 20%  | 15%  | 10%  | 12%  | 10%  | 10%  | 13%  | Only investment requirement levels between 2017 and 2023 have been considered                            |
| GOBITEC  |      |      |      | 15%  | 20%  | 20%  | 20%  | 25%  | Only 12% of the total investment requirement will be mobilized between 2020 and 2024                     |

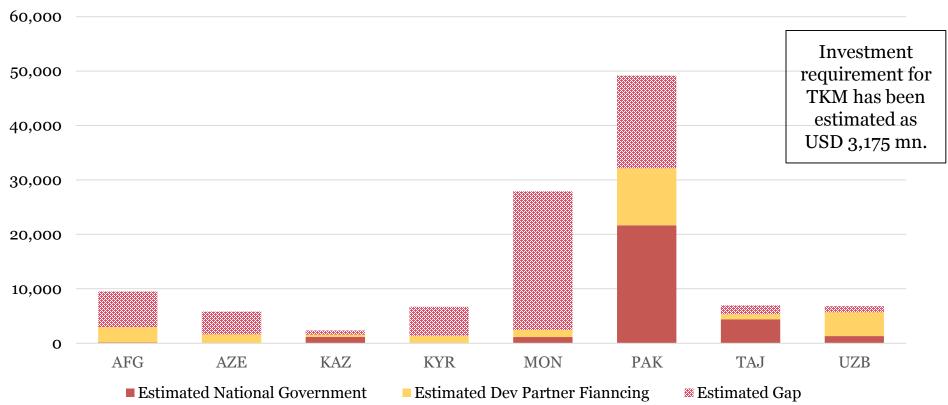
Note: Overall start-up/ commencement and completion of projects might vary from country to country

# Section 4 **Potential Sources of Funding Priority Projects**

#### Investment plan and financing sources for 2017-2023

A snapshot (1/2) – based on preliminary priority lists

#### **Investment Plan and Financing Sources**, 2017-2023 (Million USD)



There is a significant funding gap for most of the CAREC countries based on the identified investment plan

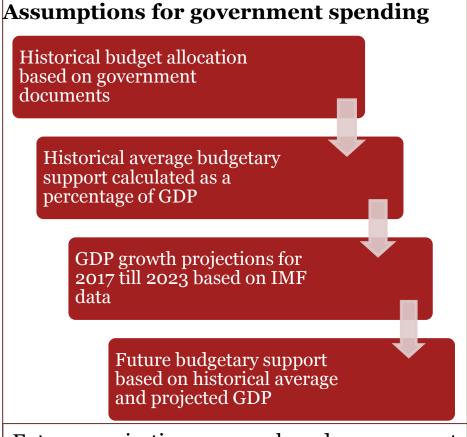
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#### Investment plan and financing sources for 2017-2023

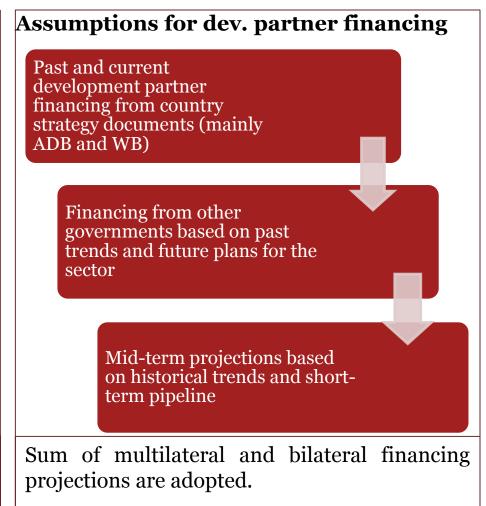
A snapshot(2/2) — based on preliminary priority lists

| (in USD Mn) | Investment<br>Requirement | Estimated<br>National<br>Government | Estimated Dev.<br>Partner<br>Financing | Funding Gap |
|-------------|---------------------------|-------------------------------------|--|-------------|
| AFG         | 9,513                     | 133                                 | 2,836                                  | 6,544       |
| AZE         | 5,822                     | 29                                  | 1,590                                  | 4,203       |
| KAZ         | 2,325                     | 1,170                               | 405                                    | 750         |
| KYR         | 6,704                     | 1                                   | 1,370                                  | 5,333       |
| MON         | 27,924                    | 1,135                               | 1,287                                  | 25,502      |
| PAK         | 49,181                    | 21,656                              | 10,510                                 | 17,015      |
| TAJ         | 6,966                     | 4,406                               | 922                                    | 1,638       |
| UZB         | 6,800                     | 1,320                               | 4,370                                  | 1,110       |
| TOTAL       | 118,410                   | 29,850                              | 23,290                                 | 65,270      |

## Estimation of government spending and development partner financing – methodology & assumptions



Future projections were based on current exchange rate. Outliers were standardised to avoid distortions.



## *Maximum government borrowing per year – all sectors*Assumptions and estimates

| (in USD Mn) | Estimate of max govt.<br>borrowing per year | Remarks/ assumptions  |
|-------------|---|---|
| AFG         | -   | Afghanistan's debt is modest but it is extensively dependent on grants (~43.4 % of GDP in 2013)                       |
| AZE         | 650   | Public debt is expected to increase in the mid-term for lower oil prices and currency depreciation in 2015            |
| KAZ         | 10,000                                      | Public debt is expected to increase in the mid-term because of fiscal deficits from low oil prices                    |
| KYR         | 450   | Mid-term debt strategy for 2015–17 promotes borrowing for projects which boosts growth                                |
| MON         | 1,300                                       | Debt ceiling was raised to 58.3% of the GDP (from 40%), which is expected to lead increased borrowing in the mid-term |
| PAK         | 12,000                                      | Net borrowing needs to decrease to stick to the Medium Term<br>Debt Sustainability targets                            |
| TAJ         | 500   | Total public debt is expected to decrease (~29.5% of GDP till 2018, based on IMF projections).                        |
| TKM         | -   | External debt is one of the lowest among the CAREC countries.   |
| UZB         | 550   | Given high international reserves and past trends, the gov't is expected to borrow only from international sources    |

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PwC

Source: PwC analysis based on sources such as IMF, WB, etc.

#### Historical trend in financing power projects

|     | National government | Development partner financing | Other government assistance | Private Sector |
|-----|---------------------|-------------------------------|-----------------------------|----------------|
| AFG | Low                 | High                          | High                        | Low            |
| AZE | High                | High                          | Low                         | Medium         |
| KAZ | High                | High                          | Low                         | High           |
| KYR | Medium              | High                          | High                        | Low            |
| MON | Medium              | High                          | Low                         | Medium         |
| PAK | High                | High                          | High                        | Medium         |
| TAJ | Medium              | High                          | High                        | Low            |
| TKM | High                | Medium                        | Low                         | Low            |
| UZB | High                | High                          | Low                         | Low            |

# Section 5 **Barriers to Private Investment and Mitigation Measures**

#### Key barriers to private investments in the region\* (1/3)

| Themes                                | Key Issues  | Potential Mitigation Measures  |
|---------------------------------------|---|--|
| Electricity industry structure        | <ul> <li>Grid functions are natural monopolies vs. energy generation or trading is not.</li> <li>Inefficiency in one function often affects development and investment in the other functions.</li> </ul> | <ul> <li>Unbundling of G-T-D and trading for efficiency improvements</li> <li>Opening one or more of G-T-D to private sector could attract investments to fill financing gap</li> <li>Separation of transmission function from trading and load dispatch may result in a more efficient market encouraging private participation.</li> </ul> |
| Financial<br>Position<br>of Utilities | Many of the utilities in the region<br>have high outstanding debt, limiting<br>their ability to invest, and also<br>increases the risk for investors.   | <ul> <li>Policies for one time settlement of liabilities linked with long term performance improvement targets</li> <li>Clear framework and policies for determination of subsidy and its future roadmap</li> </ul>  |

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<sup>\*</sup> this is a overall list of issues, and not all issues are applicable for all countries

#### Key barriers to private investments in the region\* (2/3)

| Themes  | Key Issues   | Mitigation Measures   |
|---|--|---|
| Regulatory<br>function –<br>autonomy<br>and<br>capacity | <ul> <li>Autonomy of the regulator for tariff revision and enabling market participants' cost recovery.</li> <li>Institutional capacity of the regulator in tariff setting and managing performance of utilities.</li> </ul> | especially in key functions like tariff determination.  |
| Cost<br>reflective<br>tariff                            | <ul> <li>Tariffs are not determined in transparent or competitive manner.</li> <li>Tariffs are often below costs which impacts investor interest and confidence.</li> </ul>  | <ul> <li>Separate tariff regulations for generation, transmission, distribution/retail supply</li> <li>Long term performance based regulations for determination of tariff (with incentives and penalties)</li> <li>Encouraging tariff determination through competitive bidding</li> </ul> |

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<sup>\*</sup> this is a overall list of issues, and not all issues are applicable for all countries

#### Key barriers to private investments in the region\* (3/3)

| Themes                     | Key Issues  | Mitigation Measures  |  |  |  |
|----------------------------|---|--|--|--|--|
| Overall investment climate | <ul> <li>Supportive regulations and policies to improve investment climate.</li> <li>"Getting electricity" as one of the key problem areas for businesses (World Bank Doing Business Indicator).</li> </ul> | <ul> <li>Single window system for facilitating investments</li> <li>Government guarantee for off-take</li> <li>Fiscal and tax incentives</li> <li>Forex risk hedging/ insurance</li> </ul> |  |  |  |

## Section 6 Promoting Private Investment and Public Private Partnerships (PPPs)

**PwC** 

## Global private sector investments in power sector – focus areas



Source: Power and Renewables Deals, 2016 Outlook and 2015 Review, PwC Publication TA-8727 REG: Study for Power Sector Financing Road Map • Mobilizing Funds for Building Energy Assets

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#### PPP in power sector – global trends

- Between 2002 to 2012, \$ 350 billion investments for greenfield IPPs in developing countries.
- · About 44% (\$154 billion) was in renewables and large hydros.

| Region                          | Key Points (2002-2012)   |
|---------------------------------|--|
| Europe and Central<br>Asia      | \$13.8 billion invested in non-renewable IPPs from 2002-12 (total capacity of 14.5 GW); \$18 billion invested for 9 GW of renewable energy projects    |
| Latin America                   | \$21 billion invested for 31.5 GW of non-renewable IPPs.   |
| Sub-Saharan Africa              | Non-renewable IPP in Sub-Saharan Africa totaled \$4.2 billion; with \$6.2 billion, private finance of renewable facilities outstripped non-renewables. |
| South Asia                      | \$128 billion investment in non-renewables; significant investment in renewables, with \$17.7 billion bringing 12 GW of capacity                       |
| East Asia and<br>Pacific        | \$33.1 billion in non-renewables; \$ 22.5 billion in renewables and large hydros.  |
| Middle East and<br>North Africa | Investments increase from less than \$ 1 billion in 2002 to over \$ 4 billion in 2012  |

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#### Evaluating environment for PPPs

#### Assessment by the Economist Intelligence Unit

| Rank | Country                       | Score | (2014)        |
|------|-------------------------------|-------|---------------|
| 4.   | Japan                         | 75.8  |               |
| 5.   | India                         | 70.3  | Top 3 in Asia |
| 7.   | Philippines                   | 64.6  |               |
| 8.   | People's Republic of<br>China | 55.9  |               |
| 13.  | Kazakhstan                    | 41.4  |               |
| 14.  | Pakistan                      | 41.0  |               |
| 15.  | Mongolia                      | 39.7  |               |
| 19.  | Kyrgyz Republic               | 29.5  |               |
| 20.  | Tajikistan                    | 28.7  |               |

| Mature (80-100)    | Developed (60-79.9) |
|--------------------|---------------------|
| Emerging (30-59.9) | Nascent (0-29.9)    |

### **Key factors for assessment – What makes a country attractive for PPP?**

- Regulatory framework
- Institutional framework
- Implementation capacity
- Investment climate
- Financial facilities

## Risks associated with PPP projects in CAREC countries and mitigation measures

#### **Key Risks**

### Regulatory Continuation and Certainty

#### Contract Management and Enforcement

Tariff and Return on Investment

Planning to ensure effectiveness of Projects

#### **Key Enablers**

- Appropriate policy, regulatory and legal framework
- Institutional framework for PPP and dedicated facilitating agency
- Government security and support
- Support in initiation and implementation

#### Assessment of PPPs in CAREC countries (1/3)

|     | Appropriate policy, regulatory and legal framework   |  |
|-----|--|--|
| AZE | No specific Law for PPPs or concessions. Privatization also governed as outright asset sale to private sector or as public procurement only, and silent on PPP   |  |
| KAZ | Laws need to provide clarity on aspects such as concessionaire's rights, standard concession agreements and the principles of standard concession agreements to be followed. Further, concession law focusses on BOT project types, need to explore other models (BOOT, BOO, etc.). In addition, investor/concessionaire is, generally, not protected from subsequent legislative changes which can be a deterrent for foreign |  |
| KYR | Current PPP Law needs to address aspects such as provisions like rights & obligations of the parties, grounds for termination and right to compensation, establishment of project company etc.   |  |
| MON | Need for a regulatory and judicial framework to allocate license, set tariffs and protect the interests of consumers while managing international private sector investors   |  |
| PAK | No specific federal PPP law, but a regulatory framework is provided by the PPP Policy in combination with the laws on concessions and other forms of security packages.  |  |
| TAJ | Selection criteria and procedures, including unsolicited proposals, should be clear, open, transparent and efficient   |  |
| TKM | EBRD 2012 PPP Assessment rates Turkmenistan as being in "Low Compliance" with international standards. Current law needs to provide clarity on aspects such as definitions and scope, selection procedures, project agreement, security instruments etc.   |  |
| UZB | Law on concession is silent on extent of government support, financial security and lender's rights for a PPP project.   |  |
| AFG | To introduce a dedicated PPP Policy  |  |

#### Assessment of PPPs in CAREC countries (2/3)

|     | Institutional framework for PPP and dedicated facilitating agency  | Government security and support   |
|-----|--|---|
| AZE | Need for a dedicated PPP unit  | -   |
| KAZ | PPP center needs to function with more autonomy  | Enhance security provisions (eg. Step in rights, government guarantee) which will improve bankability of projects |
| KYR | PPP unit within the Ministry of Economy needs to be strengthened   | Current legislation limits financial support to the total value of project; no support for returns.               |
| MON | Ensuring segregation of roles and responsibilities of institutions involved in the PPP value chain   | EBRD has rated highly the provision of providing Government support for Mongolia                                  |
| PAK | Institutional strengthening, including enhancement<br>of skills for effective interaction with the private<br>investors  | May ensure provision for revenue guarantees to safeguard against the commercial risk.                             |
| TAJ | Need for improving formal PPP co-ordination and<br>knowledge sharing between ministries and<br>government departments.   | Enhance security provisions (eg. Step in rights, government guarantee) which will improve bankability of projects |
| TKM | Existence of an institutional framework for PPP has been rated low in Turkmenistan according to EBRD Assessments. Also, selection procedure is not well developed.           | -   |
| UZB | Cabinet of Ministers of the Republic of Uzbekistan<br>authorizes one of the existing public authority to act<br>as Contracting Authority in a PPP project on ad-hoc<br>basis | -   |
| AFG | -  | -   |

#### Assessment of PPPs in CAREC countries (3/3)

|     | Support in initiation and implementation   |  |
|-----|--|--|
| AZE | Current government support is limited to concessions in the natural resources sector and is restricted in its application to foreign investors   |  |
| KAZ | Government has assumed the responsibility of funding feasibility studies. Initiation of projects is hence dependent on extensive government financial support.   |  |
| KYR | Government needs to provide the necessary framework to encourage the banking sector to accept more risk and mitigating the costs associated with access to finance, which is crucial for the PPP development.  |  |
| MON | Implementation of the PPP program, including the development and structuring of PPP pilot projects would require budget allocation to fund advisory services for feasibility assessment and transaction support as well as other expenses for project structuring. |  |
| PAK | PPP pilot transactions are currently taking considerable time and cost. The preparation periods and costs must be significantly reduced  |  |
| TAJ | The Government does not assume any responsibility to fund feasibility studies for projects   |  |
| TKM |  |  |
| UZB | Need to identify the national priorities for public infrastructure across multiple sectors   |  |
| AFG |  |  |

#### PPP power project development in Philippines

#### A case study

#### **BOT Law and Selected Projects:**

- Permits IPPs construct and operate power generation with reasonable ROI
- Selected hydro project developed San Roque : 411 MW Bakun : 70 MW

The BOT law has undergone amendments.

- Law introduced BOO, BLT, ROO and ROT.
- Introduced "unsolicited proposal" & directly negotiated contracts.

#### **PPP** in Philippines

#### **Incentives:**

- Fiscal incentives (tax holidays, reduced taxes, simplified customs & import procedures).
- Direct government support (provision of sites, responsibility for EMP and resettlement costs, provision of access roads & transmission lines)
- Contractual support (guarantees and other credit enhancement, minimum offtake provisions, etc.)
- International arbitration

#### Important takeaways

BOT policy with wide range of PPP models to suit specifics of location and project type (Greenfield, rehabilitation, expansion)

Incentive structure and taxes

State support: offtaker arranges for RoW and land for the project

Institutional mechanism

#### Next steps

#### Confirmation of country summaries and reports (May-Jul 2016):

 Each country focal point is requested to verify the assumptions and priority project lists (to be shared after this meeting).

#### Investor's forum (Sep or Oct 2016)

- These summaries and reports are intended to be part of information packages for investors.
- CAREC ESCC website to be launched (each country to have a dedicated page) and the summary presentations and reports to be made available before the forum

#### Thank you!

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