Beyond Cost Recovery

Setting Tariffs for Financial, Economic and Social Goals

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Purpose of Tariffs

- Markets set prices
- Governments set tariffs
- Tool for managing a public service



Two Messages

- Tariffs can do more than raise revenue.
- Tariffs must be explicit and specific about their goals.

Common Goals for Tariff Setting

- Good Governance (GG)
- Financial Sustainability (FS)
- Distributive Justice (DJ)
- Economic Efficiency (EE)
- Fair Pricing (FP)
- Some goals conflict—need to resolve conflicts



Good Governance

- Transparency
- Predictability
- Simplicity



Financial Sustainability

- Sufficient revenues to sustain utility
- Revenues cover costs

Distributive Justice

- Help the poor satisfy basic needs
- Identify basic needs

Economic Efficiency

- There are no free ways to improve welfare
- Ensure tariffs reflect economic costs of providing service

Fair Pricing

- No established definition
- Consumers pay the net social cost associated with the use of the service



Tariff Setting

- Choose goals
- Find pricing rules
- Resolve conflicts among rules



• Example 1: GG + FS

- all tariffs should reflect the GG goal
- FS goal may be achieved by charging average cost (AC)

AC = <u>Required Revenue</u> Output

 Fully Distributed Cost approach used in some developed countries



• Example 2: GG + FS + DJ

- lifeline block in tariff
- rebate on electricity bills of poor consumers
- subsidized access to power grid

• Example 3: GG + FS + DJ + EE

- tariff charged reflects marginal cost of production
- production cost varies by time of use (peak/offpeak); also by season and region
- implement time-of-use (TOU) tariffs, especially for large consumers
- TOU tariffs cause demand to shift from peak to off-peak
- the shift improves system load factor and reduces future investment requirements
- if TOU tariffs do not recover financial costs, introduce fixed charge



Example 4: GG + FS + DJ + EE + FP

 allocate fixed charges, if any, by consumer class

Ideal Tariff Structure

User charge:
 (variable per kWh)

 Fixed charge: (flat rate) peak use off-peak use other time periods, if applicable independent of usage varies by consumer class

 Rebate: (flat rate)

targeted at poor consumers may be combined with subsidized access



Additional Information

 Dole, D., 2003. "Setting User Charges for Public Services: Policies and Practice at the Asian Development Bank." ERD Technical Note No. 9, Economics and Research Department, Asian Development Bank, Manila.

http://www.adb.org/Documents/ERD /TechnicalNotes/tn009.pdf

 Dole, D., 2004. "Beyond Cost Recovery: Setting User Charges for Financial, Economic and Social Goals." ERD Technical Note No. 10, Economics and Research Department, Asian Development Bank, Manila.

http://www.adb.org/Documents/ERD /TechnicalNotes/tn010.pdf

