

17 June 2021

Beneficial PV deployment

On the road to greening economies in SEE:
Options for economic recovery and renewables
deployment



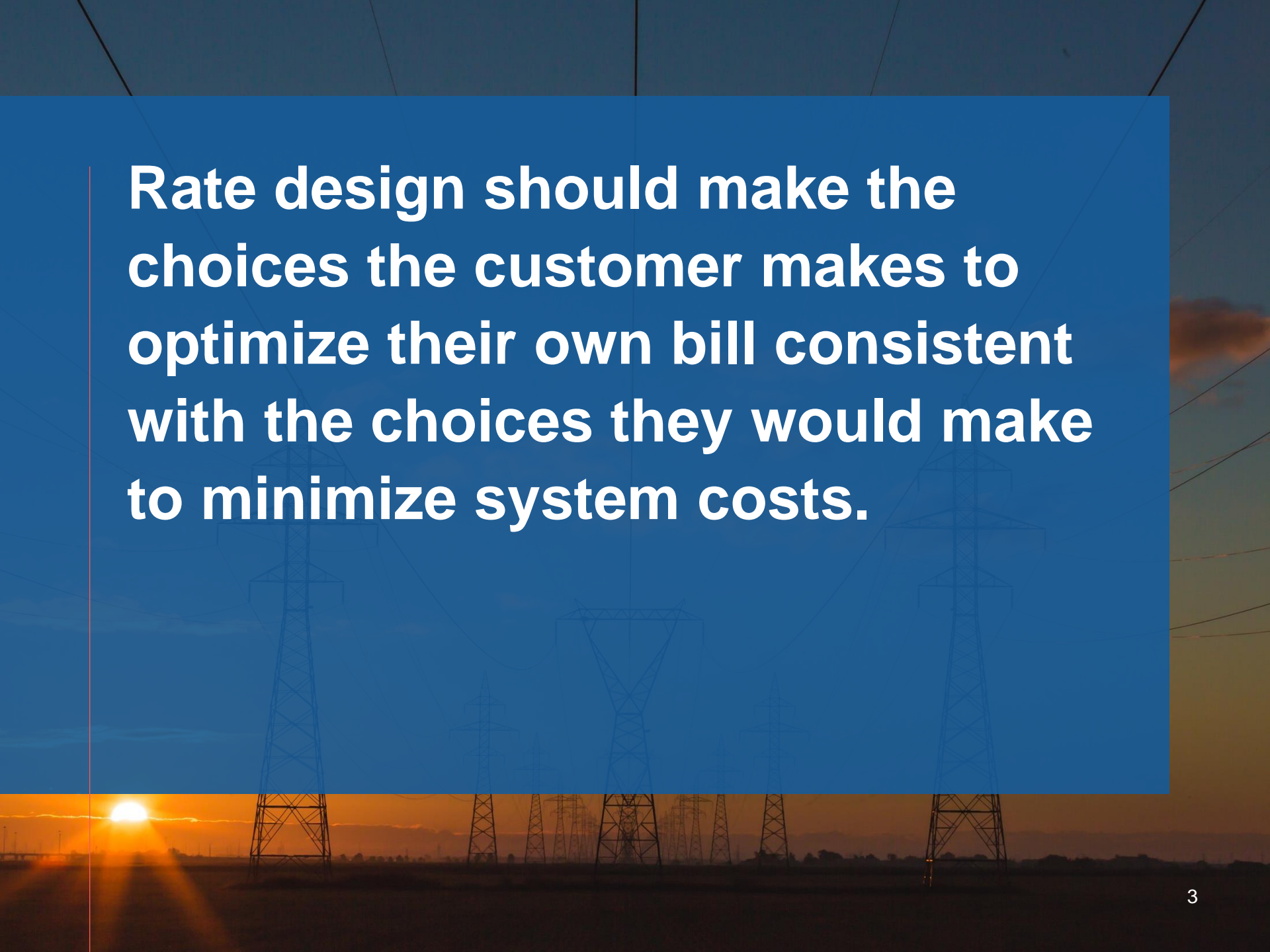
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Limits to PV deployment in the SEE region – E3 Analytics study

- Financial:
 - WACC
 - Cyclic investment support
- Regulatory:
 - Unclear
 - Incentivizing self-consumption
 - Incentivizing under-dimensioning

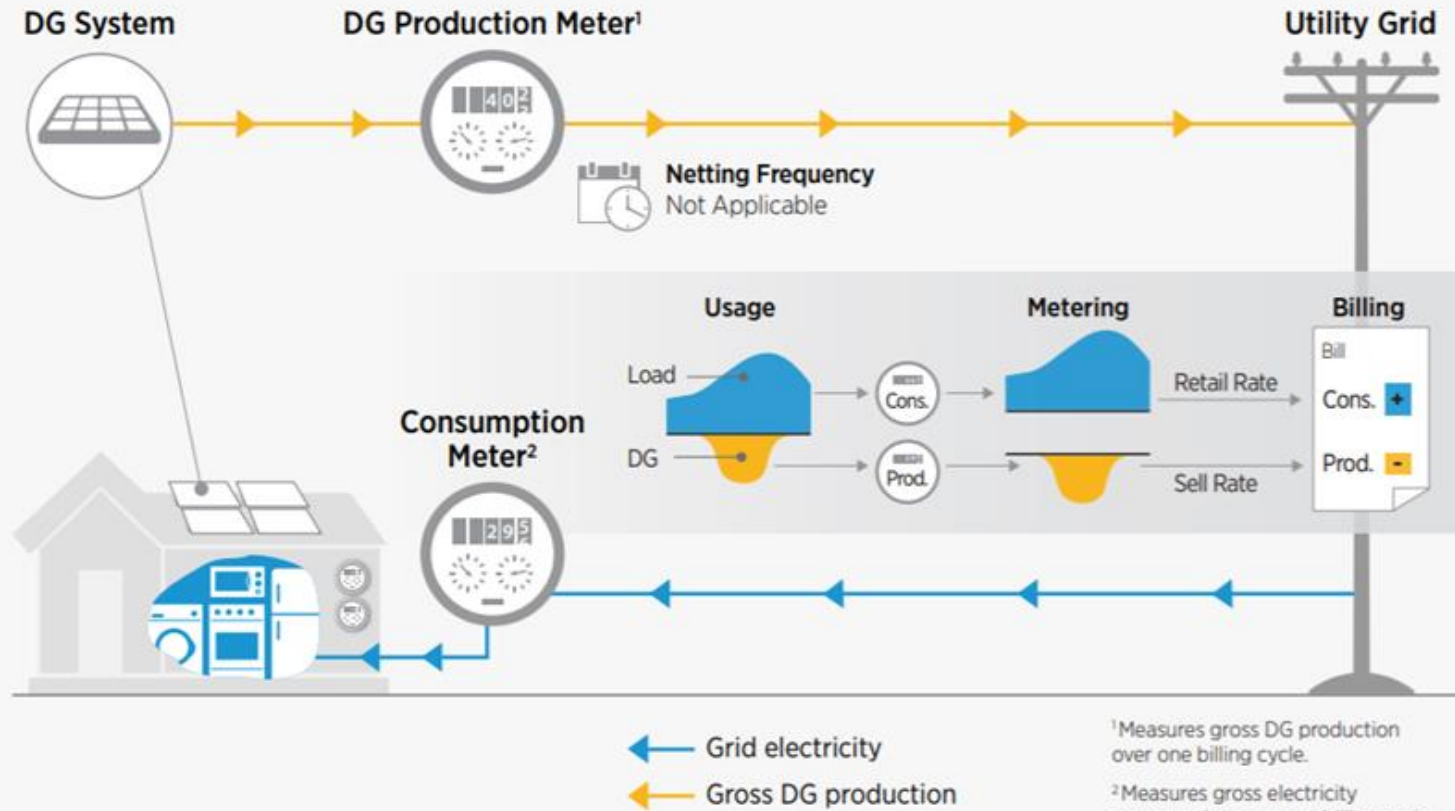
The background of the slide features a sunset scene with several high-voltage power line towers and their associated transmission lines stretching across the horizon. The sky is a mix of orange, yellow, and blue, with the sun low on the left side, creating a lens flare effect. The text is overlaid on a semi-transparent blue rectangular area.

Rate design should make the choices the customer makes to optimize their own bill consistent with the choices they would make to minimize system costs.

#1: Remuneration

- Get rid of net metering as it
 - Is not equitable
 - Equates the value/cost of consumption with generation
 - Neglects the time value of solar
- Disaggregate flows: ‚Buy-all, sell-all’ regime

BUY ALL, SELL ALL



#2: Visibility and controllability

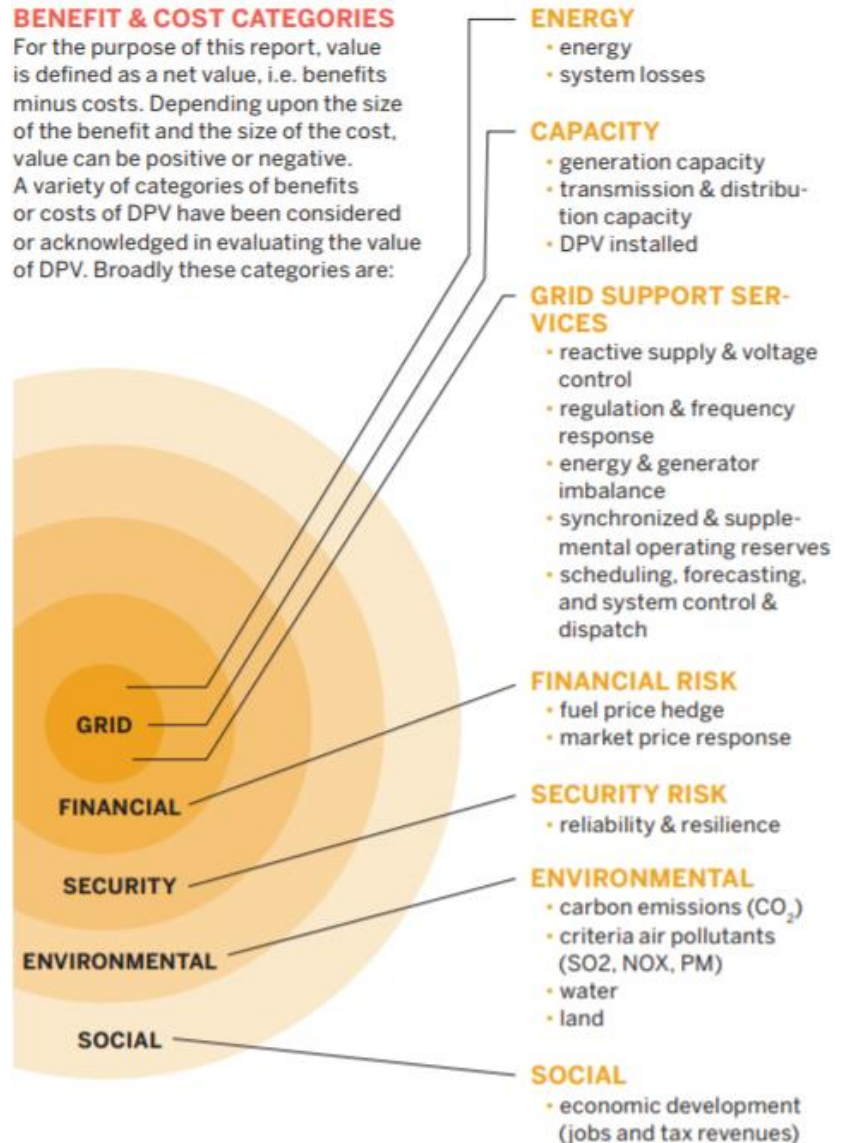
- 1.0: PV register
- 2.0: Operational data
- 3.0: Smart inverters

Conclusions

- Many potential benefits
- Coexistence of utility and rooftop scale
- Not just fast but beneficial deployment

BENEFIT & COST CATEGORIES

For the purpose of this report, value is defined as a net value, i.e. benefits minus costs. Depending upon the size of the benefit and the size of the cost, value can be positive or negative. A variety of categories of benefits or costs of DPV have been considered or acknowledged in evaluating the value of DPV. Broadly these categories are:



Hansen et al. (2013). A Review of Solar PV Benefit & Cost

About RAP

The Regulatory Assistance Project (RAP)® is an independent, non-partisan, non-governmental organization dedicated to accelerating the transition to a clean, reliable, and efficient energy future.

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