SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT

Electricity & Hydrogen Natural Partners for Sacramento Hyways

Bud Beebe

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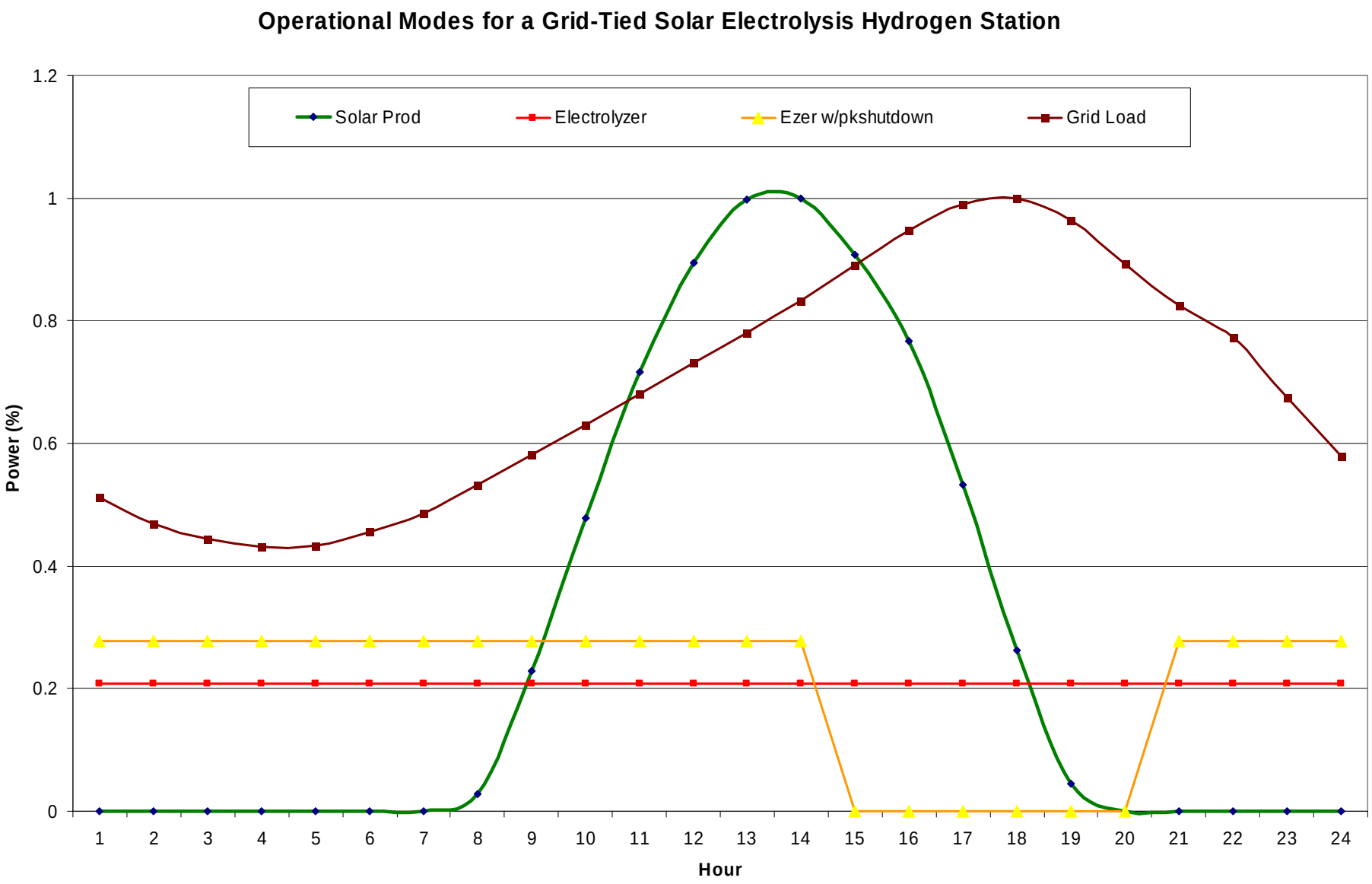
CaARB H_2 Hyway Network Work Shop

28 October '05 **CaEPA Bldg.**

Artist's Concept of a PV H_2 Refueling Station


Operational Modes for a Grid-Tied Solar Electrolysis Hydrogen Station
Solar Prod
Electrolyzer
Ezer w/pkshutdown
Grid Load
Power (%)
1.2
1
0.8
0.6
0.4
0.2
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
Hour

Additional Value that needs Additional Funds

- **Add Public Information/Education Kiosk**
- **Convert from Dedicated Use to CA H_2 Hyway**
- **Supplementary funding for Supports & Panels**
- **Partnerships facilitate Advanced Tech Projects**

Electricity/Hydrogen from CH_4

- **In conjunction with a SMUD stationary FuelCell Demo fueled by Nat Gas, Produce and compress H_2 suitable for a CA H_2 Hyway Station**
- **H_2 from Reformate suitable for all CA H_2 Hyway vehicles**

Thank You

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