



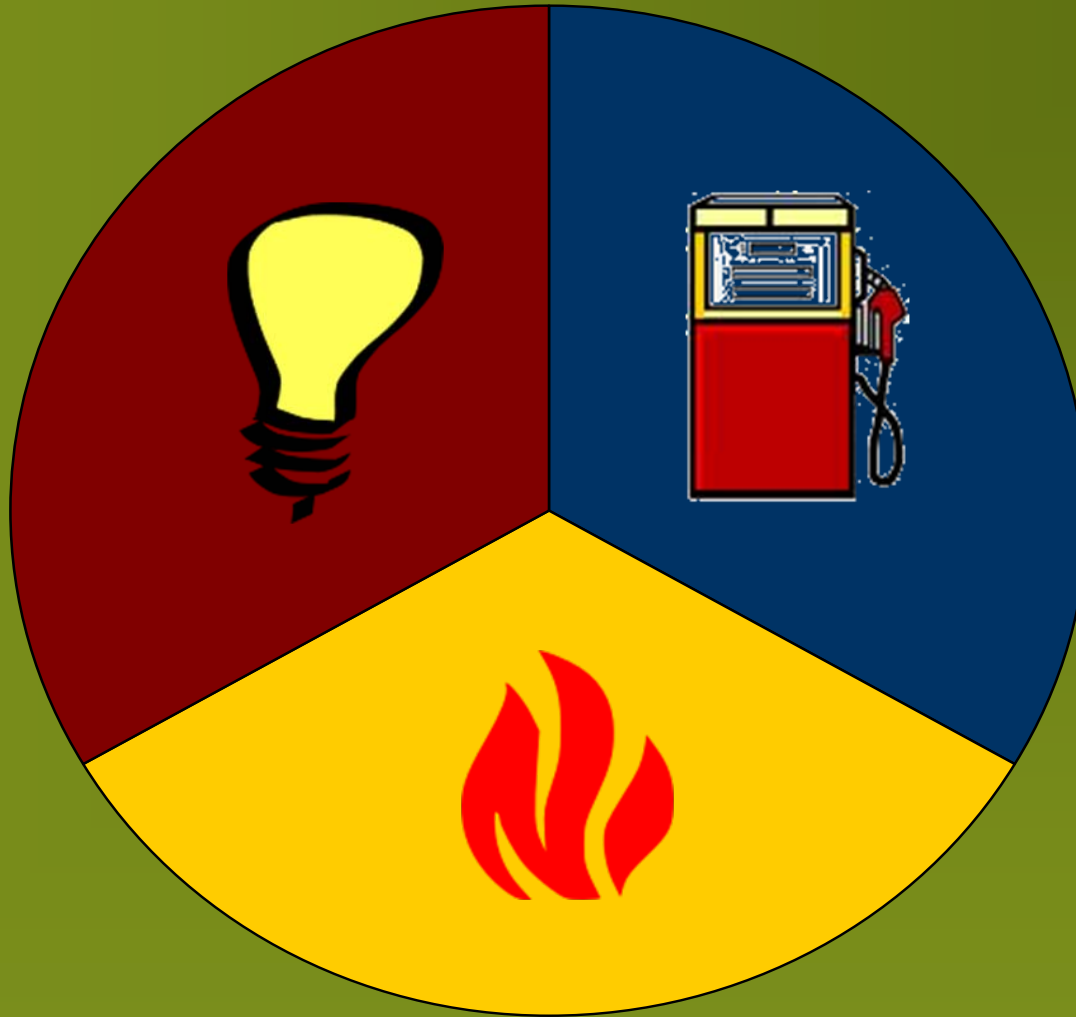
Biomass Thermal

Three Concepts for a Comprehensive Energy Policy

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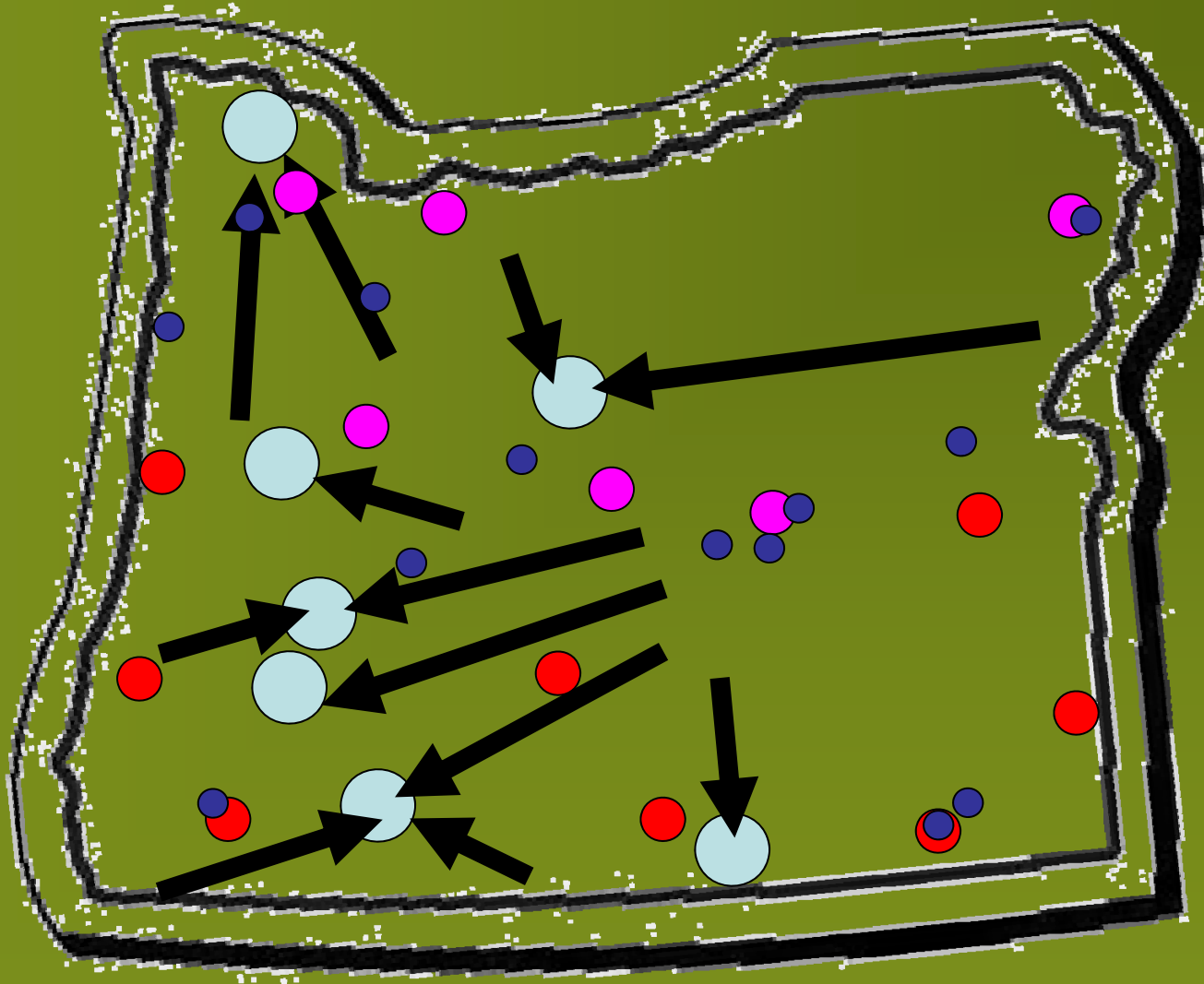


PARITY for the thermal third



National energy consumption: 1/3rds but no thermal driver

Appropriately-scaled **MARKETS**



Results tend to be more of what policy incentivizes



New jobs in John Day, OR at Malheur Lumber pellet plant

INTEGRATED OBJECTIVES: energy & restoration

| | supply (bdt) | number of facilities | price (bdt) | feedstock value (millions) | acres treated (\$350/ac) |
|-------------------|-----------------|-------------------------|----------------|----------------------------------|--------------------------------|
| 25 MW plants | 250,000 | 6 | \$30 | \$45 | 128,571 |
| Heat-led projects | 50,000 | 30 | \$55 | \$83 | 235,714 |
| Schools | 750 | 2000 | \$80 | \$120 | 342,857 |

Note: Total supply available from OFRI (2006) : 1.5 million bdt per year

- Energy savings for thermal-led paths up to \$100-\$140 million per year when offsetting heating oil or propane

Prioritizing thermal: significantly increases value & reduces energy costs



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