



Systemic components and constrains Introduction

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Transport Transport PES Energy /storage **Final energy** /storage infrastructure infrastructure conversion "More than 90% of energy extracted from the ground is wasted before it becomes useful work." **End user** appliances Fuel energy input (coal): 100 units Transmission **Energy** and distribution Motor

Drivetrain

2 percent

losses:

25 percent

Throttle

33 percent

services

9.5 units

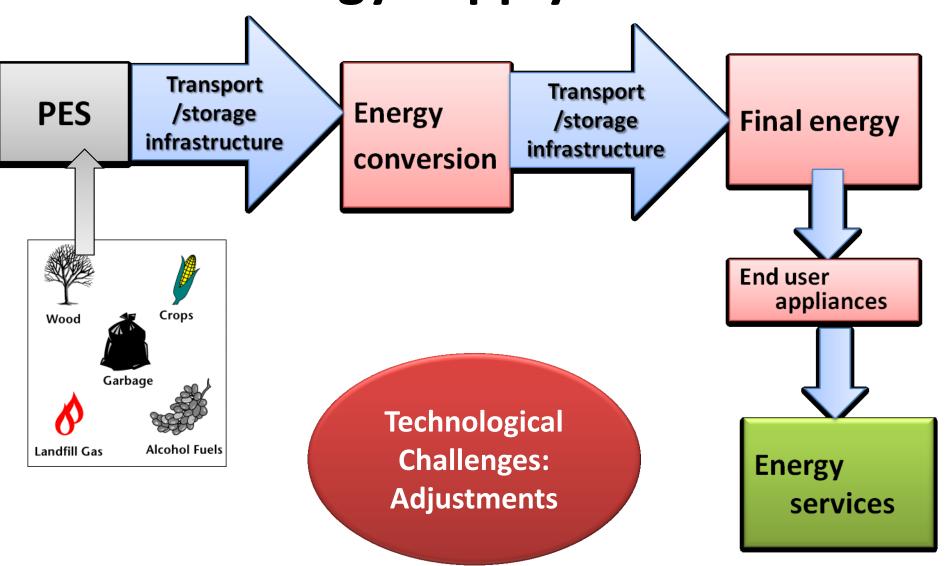
losses:

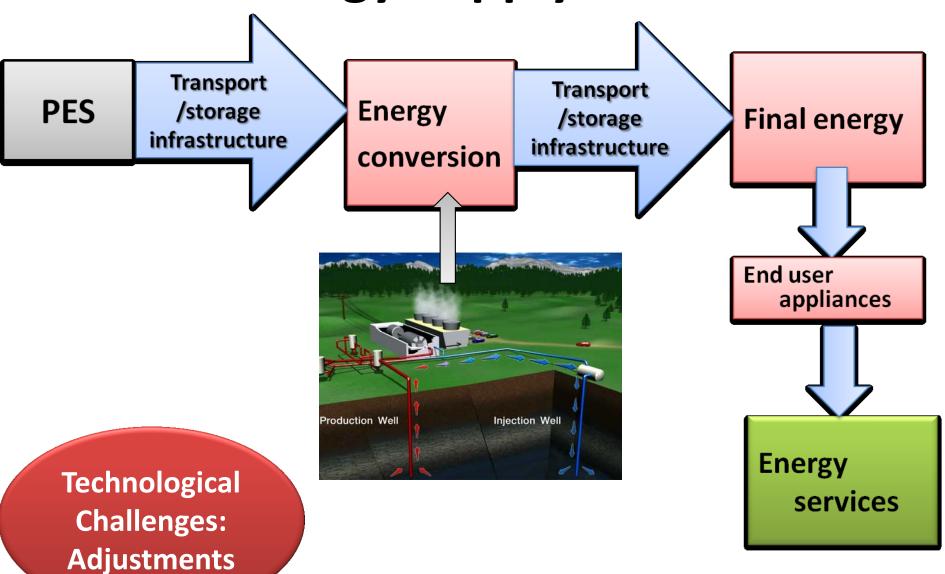
20 percent

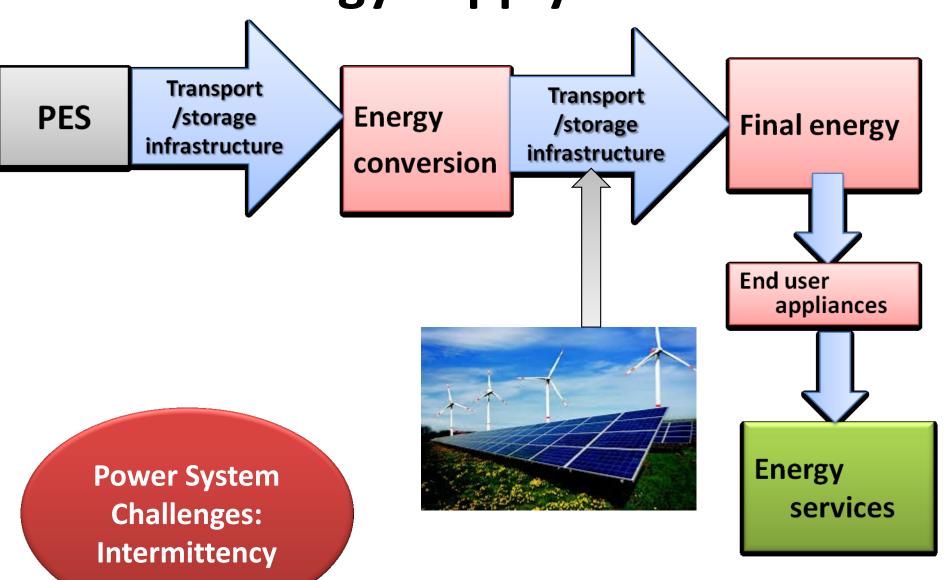
10 percent

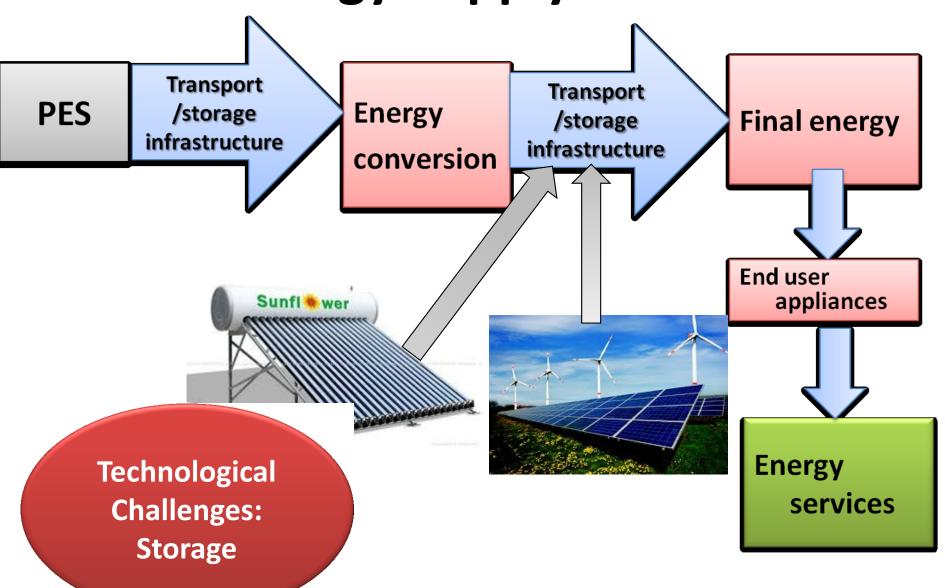
Power plant

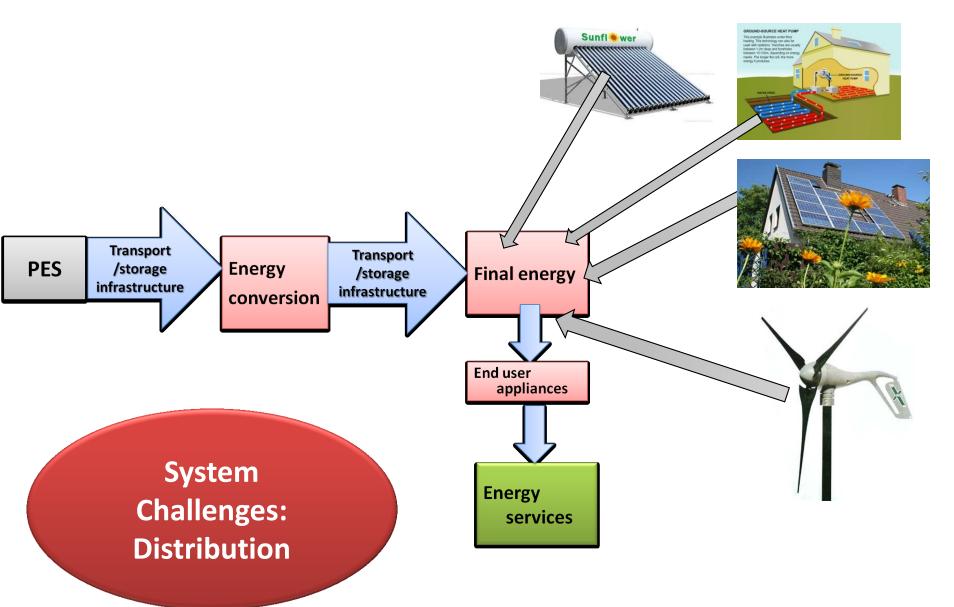
70 percent

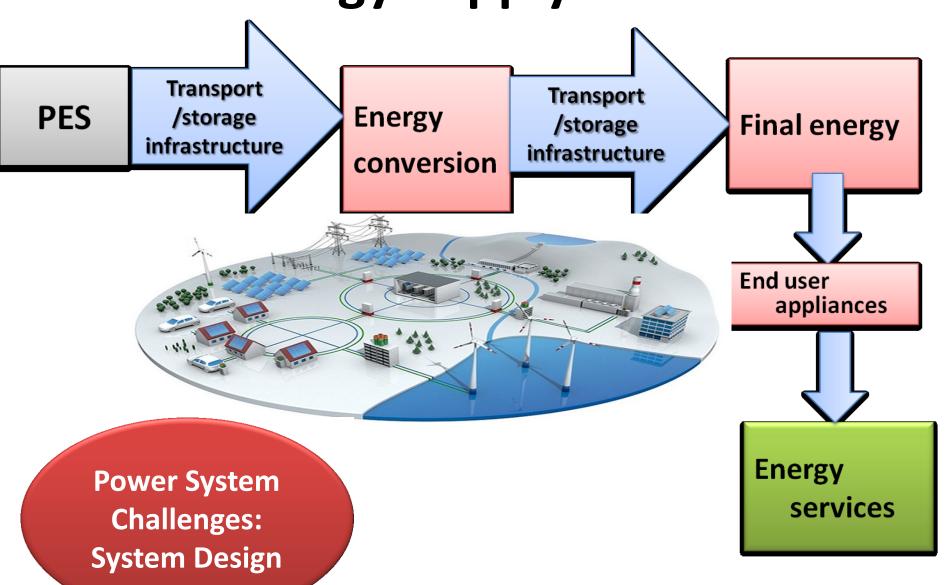


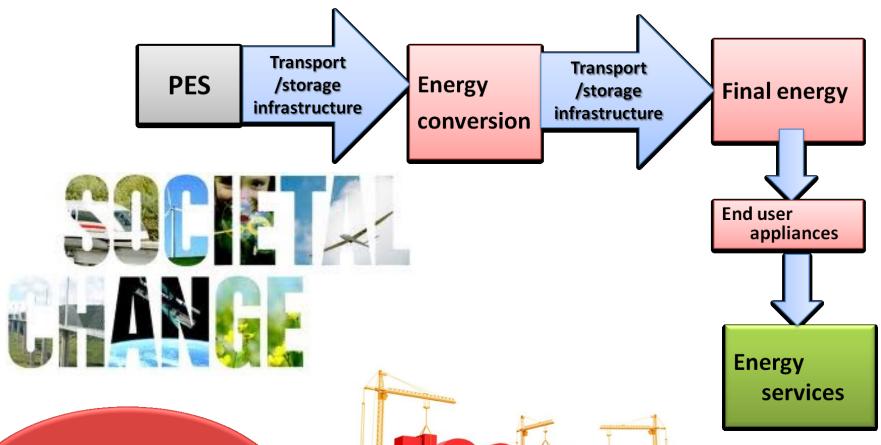












System
Challenges:
Societal, economic
management



