Digital Grid actively controls T&D



Current Grid

Smart Grid

Digital Grid

Generation

Controllable

Not Controllable

Not Controllable

Transmission & Distribution

Passive

Passive

Active Control

Demand Response

Demand

Not Controllable

Not Controllable

Not Controllable

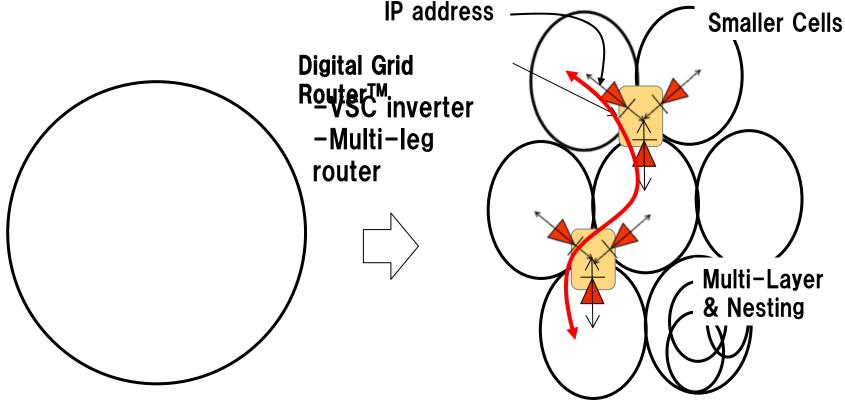
Concept of Digital Grid



Large synchronous grid

(all the generators and motors are synchronized to the grid frequency)

Smaller standalone Cell Grids (with asynchrous connection)



Cell Size: State, City, Town, Village, Factory, Building, House, etc.

Trunk and leaves with sun-shine



