

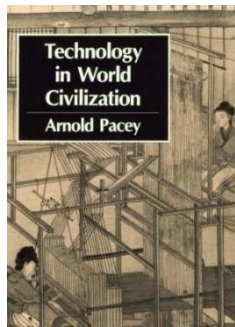
Transformative Metaphors to Overcome Technological Determinism

Fionn Rogan

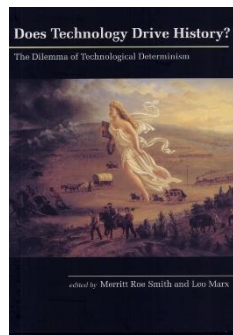
Metaphors of Transformative Change, ERI, Cork | Sept 15th 2017



Technological Dialogue



Technological Momentum



Book Review: just say no to tech determinism by Edward Tenner



Medieval stirrup theory

Transformative Metaphors

How to transform the future energy system?

Scenario analysis

Techno-economic feasibility

Insights not answers

Energy Systems Modelling

Metaphors of change

(Chiodi et al, 2013)

Energy system changing autonomously

“model **represents** the energy system”
“In all scenarios, renewables and clean electricity **allocate** additional reductions”
“To **deliver** the 95% CO2 emissions reduction target, additional reductions are **achieved** in the electricity generation sector”



Historians of Technology

Technological determinism

Reflection

Transformative change for sustainability > Technological change

