



CSUR OUTREACH

ENERGY TRANSITIONS –

HOW DO WE POWER HUMANITY IN THE FUTURE?

Modern humanity needs energy to survive. Energy networks that support us today are complex, having been built up over decades.

Forecasting energy supply and demand in the coming decades is equally complex, relying on many assumptions about energy sources and human behaviour around the world. The issue of climate change and greenhouse gas emissions that is regarded as critical to many in North America and Europe is a minor concern in many other regions of the world, where people and governments are much more focused on securing reliable energy supplies to support modern industry, education, health and lifestyles.

We will discuss different scenarios visualizing future energy demand and supply, all of which include a significant role for fossil fuels, especially natural gas, in the decades to come. We will also look at the challenges around transitioning from today's energy picture toward energy supply and demand in 2040 and beyond.