

**GRADUATE STUDIES
PROGRAM IN
ENERGY**

**THINK POWER
JOIN GTEP**

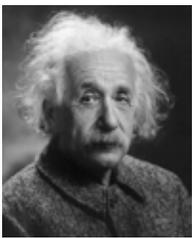


Grand Technion
Energy Program
Securing Israel today.
Transforming Israel's tomorrow



Why Energy?

Filling the gap between energy supply and demand with clean, reliable and inexpensive energy is one of the most important challenges facing humanity. Today more than ever, energy independence is vital to the long-term economic growth and development of any country.



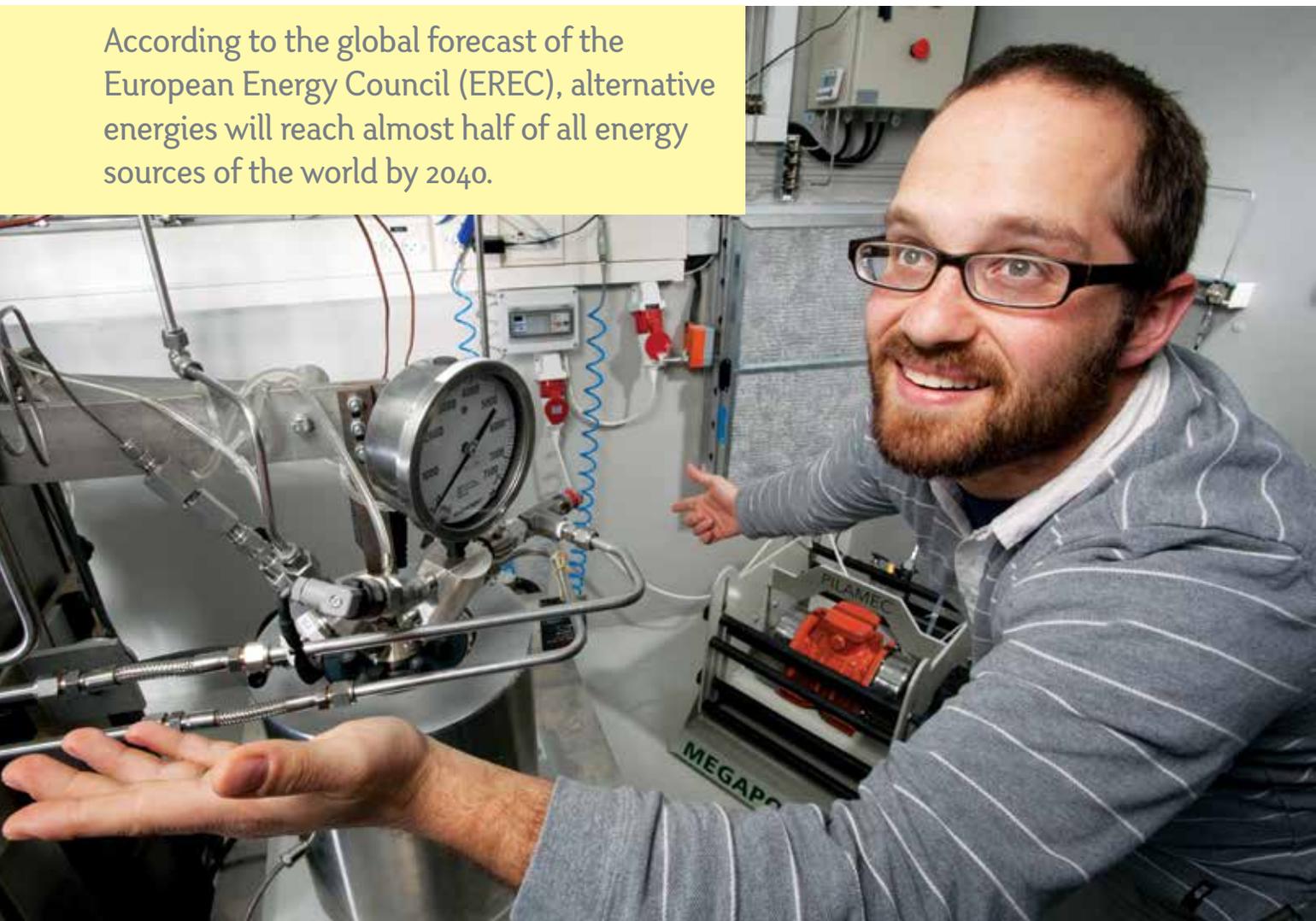
Everything is energy and that is all there is to it. Match the frequency of the reality you want and you cannot help but get

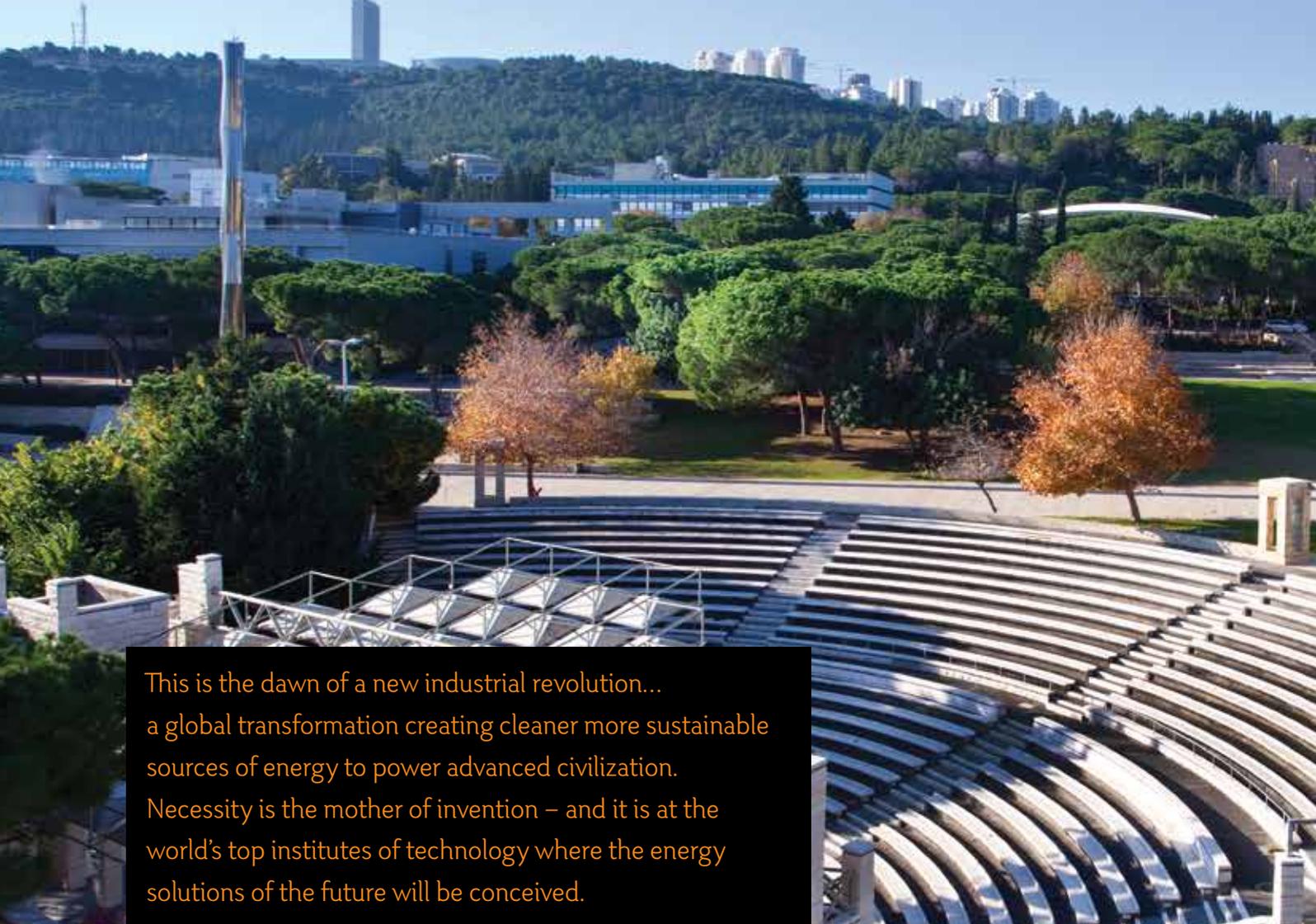
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that reality. It can be no other way. This is not philosophy. This is physics.

- Albert Einstein

According to the global forecast of the European Energy Council (EEEC), alternative energies will reach almost half of all energy sources of the world by 2040.





This is the dawn of a new industrial revolution... a global transformation creating cleaner more sustainable sources of energy to power advanced civilization. Necessity is the mother of invention – and it is at the world's top institutes of technology where the energy solutions of the future will be conceived.

Why Technion?



A technological institute in the world's top 50, where basic research exists dynamically alongside applied research and commercial expertise within the confines of state-of-the-art facilities.

First Israeli academic institution to offer graduate studies in energy, putting to use cutting-edge facilities to revolutionize energy generation.

Supports the steady emergence of novel products and processes with export potential through the Technion Research and Development Foundation (TRDF).

Faculty members include leading world experts; it has the second highest number of foreign associates in the US National Academy of Engineering.

Home to some of Israel's most pioneering multidisciplinary centers.

Two thirds of Israel's technology leaders hold a degree from the Technion.

85% of Israel's technological workforce is employed by companies led by Technion graduates.

Academic agreements with more than 200 universities and research frameworks worldwide.

Close relations with industry in a wide range of technology fields including clean technology, defense, pharmaceuticals, medical devices, information and communications technologies, and more.

Set on a modern campus in Haifa it is one of the largest university campuses in Israel offering excellent student amenities and services including quality housing, sport facilities, daycare, restaurants and a lively calendar of events and social activities.

The Nancy and Stephen Grand Technion Energy Program

Founded in 2007, the Nancy and Stephen Grand Technion Energy Program (GTEP) is a multidisciplinary research and education program, at the forefront of addressing future energy and environmental challenges both in Israel and worldwide.

GTEP provides the essential infrastructure for world-caliber basic and applied energy research through top central research facilities and equipment, support in promising energy research, data sharing, seminars and conferences, strong industrial and academic ties, and first rate faculty members.

- I. Alternative fuels**
 - Non-carbon fuels
 - Biomass-based fuels
 - Hydrogen technology

- II. Energy storage and conversion**
 - Energy storage
 - Fuel cell technologies

- III. Renewable energy**
 - Photovoltaics
 - Wind power
 - Solar thermal energy
 - Optics and light manipulation

- IV. Energy conservation**
 - Energy saving measures
 - Efficient buildings
 - Smart grids

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We are like tenant farmers chopping down the fence around our house for fuel when we should be using Nature's inexhaustible sources of energy - sun, wind and tide. I'd put my money on the sun and solar energy. What a source of power! I hope we don't have to wait until oil and coal run out before we tackle that.

- Thomas Alva Edison, 1931

GTEP Faculties

Aerospace Engineering

**Architecture and
Town Planning**

Biology

Biomedical Engineering

**Biotechnology and Food
Engineering**

Chemical Engineering

Chemistry

**Civil and Environmental
Engineering**

Electrical Engineering

**Materials Science
and Engineering**

Mechanical Engineering

Physics



GRADUATE STUDIES PROGRAM IN ENERGY

➔ REGISTER TODAY

The Interdisciplinary Energy Graduate Study Program at the Technion is the first academic program in Israel offering advanced degrees in energy. It was established in order to train the next generation of energy researchers and engineers.

At GTEP, graduate students carry out a research project under the guidance of first rate professors from different disciplines. As part of their studies, students learn classical science and engineering subjects, as well as know-how in economics and policy to get a 'big-picture' view of energy-related issues.

GTEP provides students with the essential infrastructure and sets the foundation for a multidisciplinary approach to energy studies through central research facilities, data sharing, seminars and conferences and a generous scholarships program.



➔ > **MSc. in Energy Engineering** (*with thesis*)

> **MSc. in Energy** (*with thesis*)

> **PhD. Program**

➔ ADMISSION REQUIREMENTS

The Program is designed for outstanding students holding a BSc or MSc in engineering or an exact science from an accredited university, who are eager to develop expertise in energy related fields.

➔ APPLY IN 1-2-3-4 SIMPLE STEPS:

1. Find a research advisor.
2. Fill out the forms and pay the registration fee online:
<http://www.graduate.technion.ac.il/heb/>
3. Submit a research proposal and two letters of recommendation.
4. Personal interviews according to the student's academic background.

*Registration to these programs is open year round.

➔ For additional information please contact the GTEP Graduate Studies Secretary at:
gtep@tx.technion.ac.il | Tel. +972-77-887-1882



ENERGY STUDIES.

**NOW IS THE TIME.
...THIS IS THE PLACE.**



Power-up at GTEP
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