



Industrie Service

**Choose certainty.
Add value.**

TÜV SÜD's "Fit for Carbon Capture" Certificate – to Make Your Power Station Fit for the Future

Even today, owners/operators of fossil-fuel power stations must already ensure that the design of their plants permits the fitting of suitable CCS (carbon capture & storage) technology. TÜV SÜD's experts provide support.

The backdrop to this regulation is that the European Union has set itself a reduction target for EU-wide greenhouse gas emissions of at least 20 % by 2020 and even up to 80 % by 2050 compared to the baseline year of 1990.

The German government's Integrated Energy and Climate Programme regards carbon capture and storage as an important contribution to attaining these targets.

With carbon capture & storage (CCS) technologies expected to become commercially available by 2020, CO₂ – a by-product whenever electricity is produced from fossil energy carriers (coal, gas) – is no longer emitted into the air but separated in the power-station process and then stored in suitable reservoirs. It is vital to minimise the inevitable efficiency losses which vary according to the selected separation process as far as possible.

At TÜV SÜD, we have the expertise to integrate this new technology into your power station process to ensure safe operation. We will be happy to support you and certify your plant's readiness for the fitting of suitable CCS technologies. Call us!

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TÜV SÜD Industrie Service GmbH

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Build on an experienced partner in implementation: TÜV SÜD

As no generally valid definitions and criteria as yet exist for CCS retrofitting, at TÜV SÜD we have summarised the relevant requirements in a "Carbon Capture Ready Guideline by TÜV SÜD". This guideline clearly defines the criteria to be fulfilled and the measures that need to be taken to make your power station "Fit for Carbon Capture". We take this guideline as a basis to structure and assess your power station.

TÜV SÜD's "Fit for Carbon Capture" certificate confirms that the measures required to ensure CCS retrofitting have been taken into account in power-station design. The certificate thus offers valuable assistance for furnishing evidence to regulatory bodies in the licensing and approval procedure.

Your benefits:

- ▶ You document that your plant is ready for CCS retrofitting.
- ▶ You demonstrate that sustainability and climate protection are among your key concerns.
- ▶ You strengthen the acceptance of your construction projects.
- ▶ You improve planning certainty and investment security.

The experts at TÜV SÜD are thoroughly familiar with all relevant technologies, fields and systems. TÜV SÜD's first-class reputation, recognition and acceptance throughout the world are built on technical expertise, high standards of economic and ecological project realisation, impartiality and objectivity. This benefits you.

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We make your power station "Fit for Carbon Capture" in four steps

1	Collation of the relevant data in accordance with the guideline which provides the framework for decision-making
2	Evaluation of the data for CCS retrofitting
3	Discussion of results plus identification and implementation of optimisation measures
4	Certificate issue

TÜV SÜD Industrie Service GmbH • Tel./Fax: +49 (0)621 395-287 / -593
Contact: Hans Christian Schröder • E-mail: anlagenservice@tuev-sued.de