

## Services

### Contractual Research

ISC offers its partners research or implementation of individual processes as a service. The scope can vary greatly: from carrying out a small and tightly defined set of measurements, to **developing an entire cell and / or module concept** on behalf of and in close cooperation with the partner.

All systems and measuring devices are used by our team for projects. However, after instruction, customers can also use them independently to carry out their **own developments in our facilities**. Tried and tested processes with a professional booking system support a well-coordinated process in this regard.

The best way of working together is agreed with the partner. After closely coordinated project planning, we carry out projects with regular feedback in meetings or video conferences. The newly created rights to the results remain with the partner; this is regulated in advance for each project in a cooperation agreement. We often work on an hourly basis, transparently recording machine and staff hours.



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### Small scale production series

An industrial **pilot line** for the production and extensive characterisation of crystalline silicon (c-Si) solar cells and modules is available at ISC Konstanz and treatment of various device structures (etching, PECVD, sputtering, etc. and extensive electrical characterization). The laboratories at ISC Konstanz are equipped with facilities for series production so that all developed processes can be quickly transferred to industry.

We at ISC Konstanz can **produce samples and small series** of various c-Si solar cell and module types in our laboratory according to your specific layout and process requirements.

If you are interested in **industrially manufactured solar cells or modules** with ISC Konstanz know-how, we will be happy to put you in touch with our partners worldwide.



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## ■ Licensing

All of the technologies developed at ISC Konstanz are intended for immediate or near-future application in industry. To this end, **we license many of our independent developments**. With the income from licences we can finance new developments. We are experienced at developing suitable licensing models together with our customers depending on manufacturing capacity, area of application, and desired exclusivity. We often work on an hourly basis, transparently recording machine and staff hours.



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## ■ Forecast and Concept Development

ISC Konstanz produces forecasts in the field of PV and electrical systems. For example, for the additional **energy yield of bifacial PV systems** compared to monofacial systems, with the simulation software MoBiDiG developed in-house.

We also offer the creation of **innovative overall energy concepts**, for example in new residential quarters, in which the best possible mix of CO<sub>2</sub>-neutral energy producers and energy consumers is combined. In conjunction with our model-predictive energy management system, we use the energy concepts both in simulation and in practice.



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