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Title: Future prospects of new energy storage field

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A future represents the result of an asynchronous operation, and can have two states: uncompleted or completed. Most likely, as you aren't doing this just for fun, you actually ...

The promise is the "push" end of the promise-future communication channel: the operation that stores a value in the shared state synchronizes-with (as defined in ...

If the future is the result of a call to `std::async` that used lazy evaluation, this function returns immediately without waiting. This function may block for longer than ...

If the future is the result of a call to `async` that used lazy evaluation, this function returns immediately without waiting. The behavior is undefined if `valid ()` is false before the call ...

In summary: `std::future` is an object used in multithreaded programming to receive data or an exception from a different thread; it is one end of a single-use, one-way ...

Checks if the future refers to a shared state. This is the case only for futures that were not default-constructed or moved from (i.e. returned by `std::promise::get_future ()`, ...

Specifies state of a future as returned by `wait_for` and `wait_until` functions of `std::future` and `std::shared_future`. Constants

The class template `std::future` provides a mechanism to access the result of asynchronous operations: An asynchronous operation (created via `std::async`, ...

Old info: `ensure_future` vs `create_task` `ensure_future` is a method to create Task from coroutine. It creates tasks

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in different ways based on argument (including using of ...

The get member function waits (by calling wait ()) until the shared state is ready, then retrieves the value stored in the shared state (if any). Right after calling this function, valid ...

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