

# CCLD REVIEW

Construction Codes and Licensing Division • Minnesota Department of Labor and Industry • Winter 2019

## Seminar: Amendments to the 2018 International Residential Code

DLI's Spring Seminar will focus on Minnesota Rules Chapter 1309 and amendments to the 2018 International Residential Code.

Discussion will include background information and outcomes during the code adoption process. This course will help prepare those in the construction industry for the code adoption effective March 31, 2020. The presenters for this seminar are Construction Codes and Licensing staff Rich Lockrem and Paul Swett.

### When and where

The seminar is hosted at nine locations (10 events) throughout Minnesota from 8 a.m. to 4:15 p.m. in April 2020.

It includes continuing education for residential contractors, building officials and manufactured home installers. Registration and more information will be available soon at <https://secure.doli.state.mn.us/events/>.

### Questions?

Contact Chad Payment at [chad.payment@state.mn.us](mailto:chad.payment@state.mn.us) or 651-284-5841.



## Building official limited and accessibility specialist training program

The next training program for prospective building official limited and accessibility specialists is March 2-6, 2020, at DLI's St. Paul office. The training prepares individuals for a career in the building code enforcement industry.

Those seeking building official limited or accessibility specialist certification are required to attend training. The building official limited course is five days and includes accessibility specialist training. The accessibility specialist segment is one day and covers building code accessibility requirements.

### Are there prerequisites required to attend the building official limited training?

Yes, at least 30 points are required to attend the building official limited training. Points are awarded as shown on the second page of the exam application for building official, building official limited and accessibility specialist certification ([www.dli.mn.gov/workers/building-officials](http://www.dli.mn.gov/workers/building-officials)).

### Is there a prerequisite to attend the accessibility specialist training?

No, but the exam application, fee and course enrollment forms must be submitted.

### Questions?

Visit [www.dli.mn.gov/workers/building-officials](http://www.dli.mn.gov/workers/building-officials) for more information.

# Schedule of board and council meetings

Below is a schedule of board and council meetings supported by CCLD. Visit [www.dli.mn.gov/about-department/boards-and-councils](http://www.dli.mn.gov/about-department/boards-and-councils) to view meeting minutes, agendas, rulemaking documents and schedules for these meetings and additional boards and councils.

## Board of Electricity

- Jan. 14, 2020
- April 14, 2020
- July 14, 2020
- Oct. 13, 2020

## Board of High-Pressure Piping

- Jan. 9, 2020
- April 9, 2020
- July 9, 2020
- Oct. 8, 2020

## Combative Sports Advisory Council

- TBD

## Construction Codes Advisory Council

- TBD

## Plumbing Board

- Jan. 21, 2020
- April 21, 2020
- July 21, 2020
- Oct. 20, 2020

## Rulemaking notices

Sign-up to receive notices of rule proceedings. Visit [www.dli.mn.gov/about-department/rulemaking](http://www.dli.mn.gov/about-department/rulemaking) for details and to register.

## Educational opportunities for the building trades

The Annual Institute for Building Officials is Jan. 8-23, 2020, at the Earle Brown Heritage Center, Brooklyn Center. More information and registration at <https://ccaps.umn.edu/annual-institute-building-officials>.

The **Upper Great Plains Region III Educational Institute** is Feb. 3-7, 2020, at the Oak Ridge Hotel and Conference Center, Chaska. More information and registration at <https://www.iccsafe.org/professional-development/education/upper-great-plains-region-iii-educational-institute/>.

## Looking for a phone number or email address?

Visit [ww.dli.mn.gov/about-department/our-areas-service](http://ww.dli.mn.gov/about-department/our-areas-service) for contact information for DLI staff members.

*CCLD Review* is a quarterly publication of the Minnesota Department of Labor and Industry.

Receive email notification when an issue is available by [subscribing online](#).

## Contact information

### CCLD main contact info

Phone: 651-284-5012  
Toll-free: 1-800-657-3944  
Fax: 651-284-5746

### Visit the [Contact Us](#) page

### Licensing information

[DLI.License@state.mn.us](mailto:DLI.License@state.mn.us)  
**Business/contractor licenses and bonds:** 651-284-5034  
(Including: electrical, HPP, plumbing, residential, manufactured structures, mechanical bonds, technology system, water conditioning)

### Personal licenses and certificates:

651-284-5031  
(Including: boiler engineers, electricians, plumbers, power limited technicians, pipefitters, unlicensed individuals, building officials)

### Electrical information

Phone: 651-284-5026  
Fax: 651-284-5746  
[DLI.Electricity@state.mn.us](mailto:DLI.Electricity@state.mn.us)

### Boiler, high-pressure piping, boats-for-hire inspection

Phone: 651-284-5544  
Fax: 651-284-5746  
[DLI.Code@state.mn.us](mailto:DLI.Code@state.mn.us)

### Plumbing information

Phone: 651-284-5063  
Fax: 651-284-5746  
[DLI.Plumbing@state.mn.us](mailto:DLI.Plumbing@state.mn.us)

### License enforcement details

Phone: 651-284-5069  
Fax: 651-284-5746  
[DLI.Contractor@state.mn.us](mailto:DLI.Contractor@state.mn.us)

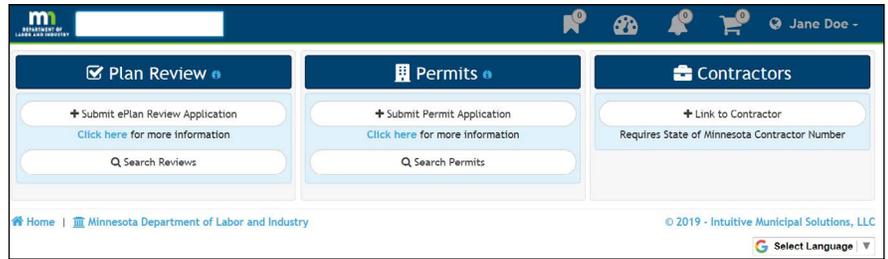
### Contractor registration

Phone: 651-284-5074  
[DLI.register@state.mn.us](mailto:DLI.register@state.mn.us)

# Boiler, elevator, manufactured structures permits moving to new system

In June 2020, permits for boilers, elevators and manufactured structures will move to a new permitting system.

Users will need to create a new account. Any permits-in-progress for existing projects will migrate to the new system. New features include allowing applicants to apply, pay for and track permits online, anytime, from any device.



## User feedback

Applications for electrical and high-pressure piping permits moved to the new system in October 2019. Ninety percent of surveyed users reported a positive experience. Survey feedback is being used to identify enhancements that will continue to improve user experience.

## Questions?

Learn more at [www.dli.mn.gov/business/get-licenses-and-permits/online-applications-plan-review-and-permits](http://www.dli.mn.gov/business/get-licenses-and-permits/online-applications-plan-review-and-permits).

## DLI continues adoption of the 2018 I-codes

DLI continues to submit the 2018 I-Codes, with amendments, for review by the Office of Administrative Hearings (OAH).

The following 2018 I-codes have been approved for adoption:

- International Building Code,
- International Residential Code,
- International Existing Building Code,
- commercial provisions of the International Energy Conservation Code, and
- International Fire Code.

Updates to the administrative provisions of the Minnesota State Building Code and the Minnesota Accessibility Code have also been approved. DLI will submit for approval the adoption of the 2018 editions of the International Mechanical Code and International Fuel Gas Code, with amendments, and an update to the code for elevators and related devices. All I-codes with amendments will be effective March 31, 2020.

## Code books

As the adoption process continues, DLI has started working with the International Code Council to develop custom code books that will integrate Minnesota's amendments into the 2018 I-codes.



## Free on-site safety and health consultations

DLI offers a free consultation service called MNOSHA Workplace Safety Consultation to help employers find out about potential hazards at their worksites, improve safety management systems and apply for grants to abate safety hazards.

The program targets small, high-hazard businesses. It is separate from the OSHA Compliance inspection activities and no citations are issued as part of a consultation visit.

## Learn more and request a consultation

- On the web: <http://workplace.doli.state.mn.us/consultation/>
- Email: [osha.consultation@state.mn.us](mailto:osha.consultation@state.mn.us)
- Call: 651-284-5060

# Building plan review questions and answers

**When a primary structure must be rated by construction type, do beams need to be individually protected or can they be protected within a rated floor/ceiling assembly?**

Rated assemblies may provide membrane protection without individual encasement protection for primary structural beams when those beams carry up to two floors, one floor and a roof, or support the line load of a wall up to two stories tall. Individual encasement protection is required on all exposed sides provided that the blind side is protected by other materials as equivalent membrane protection in accordance with IBC section 703.

Columns always require individual encasement protection for their full-length including connections.

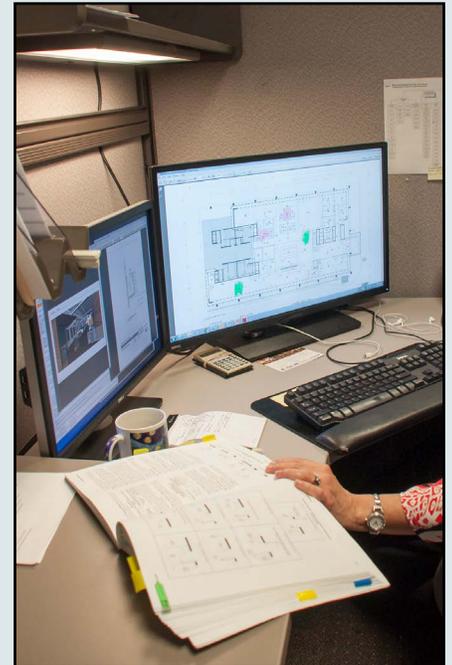
**If a building is sprinkled according to NFPA 13 or 13R and there is a separate canopy roof over the drop-off area, does the exterior canopy roof need to be sprinkled?**

Not necessarily. The two independent structures are buildings on the same property. IBC section 705.3 allows two buildings on the same lot to be treated as one building provided that together they comply with the allowable height and area restrictions of IBC Chapter 5.

NFPA 13, Section 8.15.7.2 indicates that sprinklers may be eliminated at canopies, roofs, car ports, balconies, decks or similar projections provided that the elements are constructed with non-combustible, limited combustible or fire-retardant treated materials.

NFPA 13, Section 8.15.7.3 indicates that sprinklers may be eliminated from below canopies, roofs, car ports, balconies, decks or similar projections provided that the exposed elements are constructed with non-combustible, limited combustible or fire-retardant treated materials and the concealed spaces are entirely filled with non-combustible insulation.

NFPA 13R only requires sprinklers at occupied spaces and does not require sprinkling of these circulation area canopies.



**What are code considerations for a one- or two-family home conversion to a cluster of three or more dwellings?**

Unless the separate dwelling units each meet the definition of townhome found in Minnesota Rule 1309, Minnesota Rule 1300.0040, Subpart 2 requires compliance with either Minnesota Rule 1305 or, by exception, Minnesota Rule 1311. Such buildings will require a change of occupancy and must comply with the R-2 occupancy group requirements. Minnesota Rule 1800.5200 mandates design and certification by licensed design professionals (architects and engineers) for the change in occupancy and associated work. As a residential building governed by Minnesota Rule 1305, Section 903.2.8 is directly applicable and any R-2 occupancy greater than 4,500 square feet will require an automatic fire suppression sprinkler system. The Minnesota Accessibility Code section 1107.6.2.2 will require at least one of the dwelling units to be an accessible unit. Other dwelling units with an accessible route to the entry must be Type B units. If parking is provided, accessible parking is required.

# Use of electronic plan review and permits more than doubles

Since the launch of a new electronic application and permitting system in January 2019, the submission of applications for electronic plan review have increased from 30 to 75 percent.

The ability to submit applications and plans digitally saves printing, packaging and shipping costs as well as shipping delays. In addition, the online applications and permitting software also provides access to project database information for greater transparency during the plan review and construction process.

View more about building plan review at [www.dli.mn.gov/business/get-licenses-and-permits/building-plan-review](http://www.dli.mn.gov/business/get-licenses-and-permits/building-plan-review).

## New boiler codes effective Jan. 1, 2020

The 2019 ASME and National Board Inspection codes are effective Jan. 1, 2020. This includes ASME Code Sections, I, II, III, IV, V, VI, VII, IX, X, XI and Section VIII Divisions 1, 2 and 3. The 2019 National Board Inspection will also be in effect on Jan. 1, 2020, including all parts 1, 2, 3 and 4. To order copies of these code books visit [www.asme.org](http://www.asme.org) or [www.nationalboard.org](http://www.nationalboard.org).

### Boiler inspector training

Boiler inspection staff from DLI will host a joint training session with insurance company boiler inspectors and Wisconsin state inspectors about the new codes April 28-29, 2020, in LaCrosse Wisconsin. If you are interested in attending, visit the Wisconsin Boiler Inspectors website at <https://thewbia.com> for more information.

### Boiler installation permits required

If a boiler's BTU input exceed specified limits, contractors must notify DLI when installing boilers in Minnesota. A free permit can be obtained online that automatically notifies the local inspector about the installation. Visit [www.dli.mn.gov/workers/boiler-engineer/boiler-permits](http://www.dli.mn.gov/workers/boiler-engineer/boiler-permits) to apply for a permit.

The installation of individual boilers or boilers connected to a common circulation manifold requires a permit if the individual or combined BTU input exceeds:

- 100,000 BTUs for steam boilers;
- 500,000 BTUs for hot water supply boilers; or
- 750,000 BTUs for hot water heating boilers.



## Find code requirements with Local Code Lookup

Visit our one-stop "Local Code Lookup" at <http://workplace.doli.state.mn.us/jurisdiction> – to find local code requirements and code inspectors in one place.

The online search tool helps users find which code authority has local jurisdiction for permits, plan review and inspections. It also lists contact information for inspectors throughout Minnesota.

# Residential building contractor license renewal approaching

Roughly half of all Minnesota residential building contractor and remodeler licenses expire March 31, 2020.

Renew online at <https://secure.doli.state.mn.us/license/Default.aspx>. You can also review and update the information we have on file for your license.

As part of renewal, licensees must submit a liability insurance certificate and a workers' compensation insurance compliance form. Download forms at [www.dli.mn.gov/business/residential-contractors/contractor-and-remodeler-license](http://www.dli.mn.gov/business/residential-contractors/contractor-and-remodeler-license). Completed forms can be sent to [dli.license@state.mn.us](mailto:dli.license@state.mn.us), faxed to 651-284-5746 or mailed to us. Insurance agents may submit an ACORD form as long as DLI is listed as a certificate holder.

## Qualifying person continuing education

The qualifying person for a building contractor or remodeler license must complete 14 hours of DLI-approved continuing education (CE) every two years. However, the individual's deadline for completing their CE is not always the same as the expiration date of the contractor's business license. Check a qualifying person's CE status at <https://secure.doli.state.mn.us/lookup/licensing.aspx>.

Approved continuing education courses are at <https://secure.doli.state.mn.us/cldcecourses/>.

License renewals received after March 31 are subject to a \$90 late fee. For the fastest processing, we recommend submitting renewals by March 1.

Contractors who choose not to renew online should complete and mail these forms and the license fee to us: [www.dli.mn.gov/sites/default/files/pdf/rbc\\_renewal19.pdf](http://www.dli.mn.gov/sites/default/files/pdf/rbc_renewal19.pdf).

**Questions?** Contact us at [dli.license@state.mn.us](mailto:dli.license@state.mn.us) or 651-284-5034.

## Plumbing contractor fined \$10,000

- A licensed Foley plumbing contractor performed plumbing work without obtaining permits or inspections. The contractor was censured and fined \$10,000, of which \$7,000 was stayed contingent on future compliance.
- An unlicensed Lindstrom contractor was ordered to cease and desist from unlicensed residential building contractor activity and fined \$5,000.
- A licensed Minneapolis residential building contractor was found to have numerous civil judgments entered against it for failing to pay its material suppliers. DLI revoked the contractor's license, ordered it to cease and desist from acting or holding itself out as a residential building contractor and assessed a \$5,000 fine.
- An unlicensed Jordan contractor was ordered to cease and desist from engaging in unlicensed electrical and residential building contractor activity and fined \$6,000.
- Owners of a wedding barn venue in Henderson were found to have engaged in unlicensed electrical work. The owners were ordered to cease and desist from performing electrical work in Minnesota and fined \$5,000, which was stayed contingent on future compliance.



**Enforcement actions**  
View enforcement and license actions levied against licensees.

### More information

View summaries of enforcement actions at [www.dli.mn.gov/workers/homeowners/file-complaint-and-view-enforcement-actions](http://www.dli.mn.gov/workers/homeowners/file-complaint-and-view-enforcement-actions). Questions? Contact us at 651-284-5069 or [dli.contractor@state.mn.us](mailto:dli.contractor@state.mn.us).

# Rulemaking process begins for the 2018 Minnesota Plumbing Code.

The Minnesota Plumbing Board published a Request for Comments in the State Register on Nov. 4, 2019, as it considers updating the Minnesota Plumbing Code by incorporating by reference the 2018 Uniform Plumbing Code (UPC), with amendments.

The 2018 UPC and possible proposed amendments were reviewed by the Ad Hoc Code Review and Rulemaking Committee. The committee recommended the Plumbing Board open the Plumbing Code rulemaking. Interested persons or groups may submit comments or information about these possible rules in writing to [dli.rules@state.mn.us](mailto:dli.rules@state.mn.us) until 4:30 p.m. on Monday, Jan. 6, 2020.

Submit comments or information about these possible rules to [dli.rules@state.mn.us](mailto:dli.rules@state.mn.us) until 4:30 p.m. on Monday, Jan. 6, 2020.

Proposed amendments the board considered in its determination to open rulemaking are available at [www.dli.mn.gov/sites/default/files/pdf/RFA-recommend.pdf](http://www.dli.mn.gov/sites/default/files/pdf/RFA-recommend.pdf). The rule draft and statement of need and reasonableness to support the proposed rule amendments are currently being developed and will be posted on the rulemaking docket when available [www.dli.mn.gov/about-department/rulemaking/rulemaking-docket-minn-r-chpt-4714-2018-upc](http://www.dli.mn.gov/about-department/rulemaking/rulemaking-docket-minn-r-chpt-4714-2018-upc).

Agendas, meeting minutes and a schedule of the board meetings can be found at [www.dli.mn.gov/about-department/boards-and-councils/plumbing-board](http://www.dli.mn.gov/about-department/boards-and-councils/plumbing-board). All meetings are open to the public and conducted at the Department of Labor and Industry, 443 Lafayette Rd. N., St. Paul, MN 55155.

## Final interpretations for the Minnesota Plumbing Code

The Minnesota Plumbing Board has final interpretive authority for the provisions of the Minnesota Plumbing Code.

The board reviews requests and issues final code interpretations. All final interpretations issued by the board are subject to enforcement by code officials and will be considered by the board for adoption as part of the Minnesota Plumbing Code.

View more information and submit a request for an interpretation at [www.dli.mn.gov/about-department/boards-and-councils/plumbing-board-final-interpretations](http://www.dli.mn.gov/about-department/boards-and-councils/plumbing-board-final-interpretations).

Minnesota Plumbing Code, 2012 Uniform Plumbing Code as incorporated in Minnesota Rules 4714.0050	Subject of final interpretation
<a href="#">Section 204 and Table 604.1</a>	Use of polyethylene piping for building supply piping
<a href="#">Section 204</a>	Definition of building supply
<a href="#">Sections 414.3 and 807.4</a>	Air gap fittings and drainage from domestic dishwashers
<a href="#">Table 603.2</a>	Atmospheric vacuum breaker backflow preventer
<a href="#">Section 603.2</a>	Double check assembly with an atmospheric vent and combi-oven
<a href="#">Section 603.5.15</a>	Double check backflow prevention assemblies integral part of fire protection system
<a href="#">Section 709.1</a>	Drain by gravity
<a href="#">Sections 710.10 and 906.4</a>	Exterior sumps and receiving tanks

# Plumbing contractor, journeyworker licenses expire Dec. 31, 2019

All plumbing contractor and journeyworker plumber licenses expire Dec. 31, 2019.

Visit [www.dli.mn.gov/business/plumbing-contractors/plumbing-contractor-license-renewal](http://www.dli.mn.gov/business/plumbing-contractors/plumbing-contractor-license-renewal) to renew your contractor license.

When renewing, you can update the information we have on file for your business. The plumbing contractor license renewal fee is \$128 and can be paid online with a credit or check card.

## Journeyworker renewal

Visit <https://secure.doli.state.mn.us/license/> to renew your journeyworker license.

Journeyworker plumbers must complete 16 hours of approved continuing education before renewing their license. Renewing without completing continuing education could result in license suspension and a \$1,000 fine. A list of all approved courses is at <https://secure.doli.state.mn.us/cldcecourses>.

The renewal fee for journeyworker plumbers is \$43.

## Questions?

Contact us at 651-284-5034 or [DLI.license@state.mn.us](mailto:DLI.license@state.mn.us).



Plumbing contractor and journeyworker plumber licenses expire Dec. 31, 2019.

## New continuing education requirements for unlicensed plumbers

All registered unlicensed plumbers must complete two hours of DLI-approved continuing education (CE) relating to the State Plumbing Code each year before renewing their unlicensed registration. The change was adopted by the Minnesota Plumbing Board in 2019.

Unlicensed plumber registrations expire June 30, 2020. To renew, unlicensed plumbers must:

- submit a \$19 registration renewal fee,
- submit a completed work experience verification form ([www.dli.mn.gov/sites/default/files/pdf/pe\\_work\\_experience.pdf](http://www.dli.mn.gov/sites/default/files/pdf/pe_work_experience.pdf)), and
- complete two hours of continuing education.

View a directory of approved courses at <https://secure.doli.state.mn.us/cldcecourses>. Course sponsors report attendance directly to DLI so you do not need to submit proof of attendance with your renewal. Courses can be completed in-person or online.

## Questions?

- Information about CE for plumbers is at [www.dli.mn.gov/business/plumbing-contractors/continuing-education-requirements-plumbers](http://www.dli.mn.gov/business/plumbing-contractors/continuing-education-requirements-plumbers).
- Contact us at [dli.license@state.mn.us](mailto:dli.license@state.mn.us) or 651-284-5031.

## Electrical contractor license renewals

Submit your electrical contractor license renewal by Feb. 29, 2020, to ensure you can obtain electrical permits. [Renew online here](#). The renewal fee is \$128.

Contractors need to provide a current liability insurance certificate issued by their insurance agent (if the information we have on file is outdated) and a [Workers' Compensation Insurance Compliance Form](#). These forms can be uploaded during the online renewal process or emailed to [dli.license@state.mn.us](mailto:dli.license@state.mn.us).

Contractors who do not submit a renewal by Feb. 29, 2020, will be charged a \$60 late fee and will not be able to obtain electrical permits. Questions? Contact us at 651-284-5034 or [dli.license@state.mn.us](mailto:dli.license@state.mn.us).



## DLI participates in MASMS conference

DLI Electrical Representatives Steven Dudley and Sheldon Monson participated in the annual Minnesota Educational Facilities Management Professionals Association (MASMS) Conference in St. Cloud in October.

Staff attend this conference to help schools ensure staff are compliant with electrical licensing requirements. MASMS is a group of more than 700 individuals who work in the areas of facilities, grounds, health and safety operations for Minnesota schools and higher education.



DLI electrical staff, left to right, Wayne "Chip" Jespersen, Scott Higgins, Wade Schlie, Mark Hunter, John McNamara and Dean Hunter.

## Staff updated about 2020 NEC

Electrical area representatives represented DLI at the Western Section Meeting sponsored by the International Association of Electrical Inspectors (IAEI) in Wichita, Kansas in September.

The purpose of the meeting was to review changes to the 2020 National Electrical Code (NEC). National Fire Protection Association technical committee code panel members presented the changes and the reasons for the updates.

As Minnesota moves closer to adoption of the 2020 NEC, DLI's electrical area representatives, along with department staff, will work to share information with contractors, update technical documents and provide support for the field electrical inspectors.

## New electrical codes and standards bulletins available

Bulletins about electrical installations, the National Electrical Code, licensing and more are available at [www.dli.mn.gov/business/electrical-contractors/electrical-codes-and-standards](http://www.dli.mn.gov/business/electrical-contractors/electrical-codes-and-standards).

### Recent additions include:

2020 NEC: [www.dli.mn.gov/sites/default/files/pdf/NECFAQ20.pdf](http://www.dli.mn.gov/sites/default/files/pdf/NECFAQ20.pdf)

Radon fans: [www.dli.mn.gov/sites/default/files/pdf/eli\\_bulletin\\_radonfans.pdf](http://www.dli.mn.gov/sites/default/files/pdf/eli_bulletin_radonfans.pdf)

Solar photovoltaic systems and the 2020 Minnesota Residential Code: [www.dli.mn.gov/sites/default/files/pdf/fs\\_res\\_solar.pdf](http://www.dli.mn.gov/sites/default/files/pdf/fs_res_solar.pdf)