



IgCC 2018

2020 Code Adoption Overview

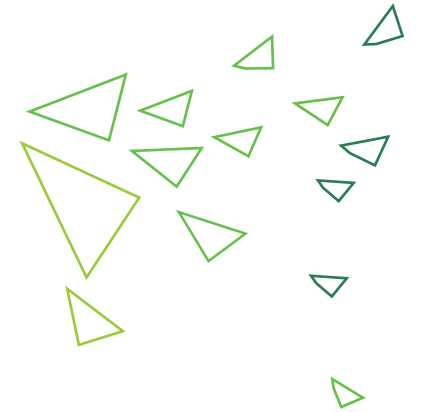
Department of Permitting Services
Montgomery County, MD

Updated 03/02/2020



Agenda

- 2018 IgCC Overview
- Chapter Summaries & Recommended Amendments
- Q/A & Discussion



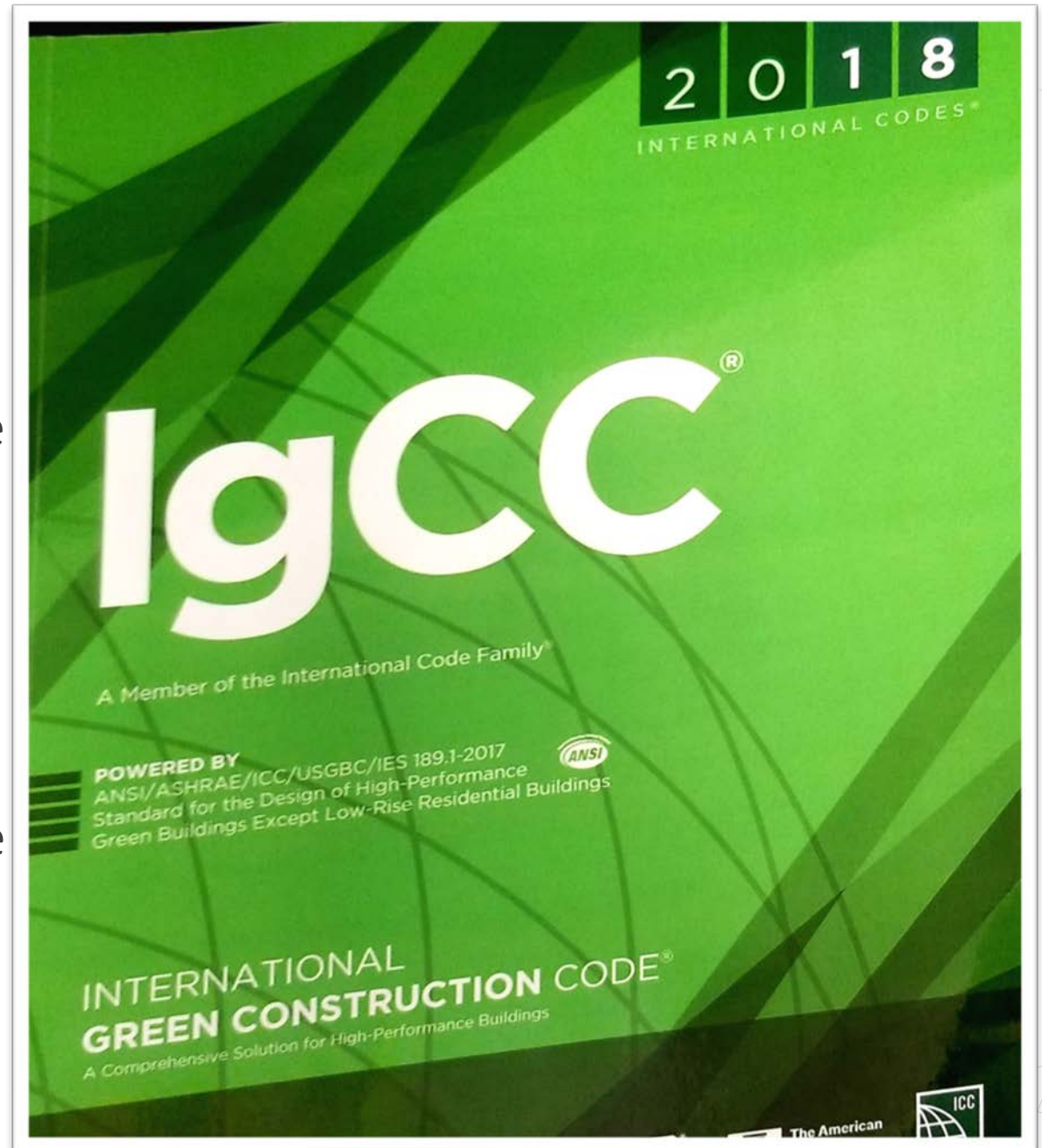
2018 IgCC Chapters

Mandatory Provisions		Prescriptive and Performance	References and Tables	
<ul style="list-style-type: none"> • Chapter 1 <ul style="list-style-type: none"> • Administration • Chapter 2 <ul style="list-style-type: none"> • Reserved • Chapter 3 <ul style="list-style-type: none"> • Definitions • Abbreviations • Acronyms • Chapter 4 <ul style="list-style-type: none"> • Reserved 	<ul style="list-style-type: none"> • Chapter 5 <ul style="list-style-type: none"> • Site Sustainability • Chapter 6 <ul style="list-style-type: none"> • Water Use Efficiency 	<ul style="list-style-type: none"> • Chapter 7 <ul style="list-style-type: none"> • Energy Efficiency • Chapter 8 <ul style="list-style-type: none"> • IEQ • Chapter 9 <ul style="list-style-type: none"> • Materials and Resources • Chapter 10 <ul style="list-style-type: none"> • Construction and Plans for Operation 	<ul style="list-style-type: none"> • Chapter 11 <ul style="list-style-type: none"> • Normative References • Appendix A <ul style="list-style-type: none"> • Climate Zones, Building Envelope, Duct Insulation • Appendix B <ul style="list-style-type: none"> • Equipment Tables • Appendix C <ul style="list-style-type: none"> • Energy Efficiency • Appendix D <ul style="list-style-type: none"> • Building Concentrations • Appendix E <ul style="list-style-type: none"> • Building Envelope 	<ul style="list-style-type: none"> • Appendix F <ul style="list-style-type: none"> • Integrated Design • Appendix G <ul style="list-style-type: none"> • Informative References • Appendix H <ul style="list-style-type: none"> • Energy Efficiency Through IECC • Appendix I <ul style="list-style-type: none"> • FPT and CX • Appendix J <ul style="list-style-type: none"> • Residential Option • Appendix K <ul style="list-style-type: none"> • Addenda descriptions

Chapter 1

Scope and Administration

- Establishes the duties and powers of the code official
- Enforcement and authority granted to the code official to make inspections
- Provides guidance to the code official in approval of materials, methods of construction, designs, systems, and innovative approaches
- Establishes the rights and privileges of the design professional, contractor and property owner.



Chapter 1

DPS Proposed Amendments

- Residential Building Exemption
 - Single family homes, townhomes, duplexes, etc.
 - Group homes not exceeding 16 residents that provide need services to community residents (assisted living, recovery homes, foster care).
- Small/Expanding Business Exemption:
 - New buildings that are less than 5,000 square feet in gross area.
 - Alterations and additions.



2018 Chapters 2-4

- Chapter 2 - Reserved
- Chapter 3 – Definitions, Abbreviations and Acronyms
 - Terms that have unique definitions in the code, and often have prime importance in establishing the meaning and intent of the code text.
- Chapter 4 - Reserved



MC Equipment Maintenance and Transit Operations Center, Gaithersburg.

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Chapter 5 – Site Sustainability

Requirements related to the selection and development of sites and the mitigation of heat island effect, light pollution and transportation impact.

- Section 501.3 limits the type of sites that can be built upon and the type of development that can occur.
- Section 501.3.1.1 limits building sites to within the envelope of an existing building, brownfield sites, greyfield sites and certain limited types of greenfield sites.
- Section 501.3.1.2 limits building development relative to elevation of the 100-year flood, near fish and wildlife habitat conservation areas and near wetlands.
- 501.3.2 requires predesign site inventory and assessment.
- 501.3.3 regulates plantings on the site.
- 501.3.4 contains requirements for stormwater management systems.
- 501.3.6 addresses light pollution.
- 501.3.7 addresses transportation impacts.
- 501.3.8.1 addresses building site waste management.
- **DPS proposes to DELETE 501.3.4. Montgomery County has a robust Storm Water Management Policy and Program required by State and FEMA.**

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Chapter 6 – Water Use Efficiency

Requirements are intended to conserve potable and non-potable water.

- Section 601.3.1 reduces water use on sites through landscaping and irrigation system design.
- 601.3.2 regulates water consumption through limitations of fixture and fitting flow rates, equipment, appliances, and HVAC systems.
- 601.3.3 regulates water use in ornamental fountains.
- 601.3.4 requires water metering/monitoring and data collection.
- Sections 601.3.5, 601.3.6 and 601.3.7 regulate water softeners, reverse osmosis water treatment systems and onsite reclaimed water treatment systems.
- 601.3.8 requires the installation of a dual water supply plumbing system wherein reclaimed water is supplied to urinals and water closets, when a reclaimed water supply is available or planned to be available within 5 years.
- **DPS proposes no changes or amendments to this chapter. WSSC is the authority for Montgomery County's municipal water supply and plumbing code.**

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Chapter 7 – Energy Efficiency

Requirements related to the effective use of energy in buildings and appliances, and to on-site renewable energy systems.

- Section 701.3 requirements for air barriers, on-site renewables, energy consumption management, and automated demand response systems.
- 701.4 includes provisions related to renewable energy systems, the building envelope, HVAC systems, services water heating, lighting and various other equipment.
- 701.5 performance-based energy compliance path based on annual energy cost concept. Sets maximum annual carbon dioxide equivalent requirements.

- DPS proposes no changes or amendments to this chapter.

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Chapter 8 – Indoor Environmental Quality (IEQ)

Intended to ensure that the building's interior environment is conducive to the health of building occupants.

- Section 801.3 contains mandatory provisions related to indoor air quality, thermal environmental conditions, acoustical, soil gas control, lighting quality, moisture control and glare control.
- 801.4 contains prescriptive requirements for daylighting, materials volatile organic compound emissions and contents, and lighting for presentations.
- 801.5 has performance-based provisions for daylight simulation, material VOC emissions and lighting for presentations.

- DPS proposes no changes or amendments to this chapter.

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Chapter 9 – Materials and Resources

This chapter addresses the human health and environmental impacts of materials.

- Section 901.3 contains requirements for construction waste management, the extracting, harvesting and manufacturing of materials, refrigerants, the storage and collection of recyclables, and mercury content levels of lamps.
- 901.4 contains prescriptive requirements for recycled and salvaged materials, regional materials, biobased products, and multiple-attribute product declaration/certification.
- 901.5 has performance-based provisions for a life-cycle assessment that addresses performance metrics, procedures, and reporting.

- DPS proposes no changes or amendments to this chapter.

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Chapter 10 – Construction and Plans for Operation

This chapter addresses building commissioning and functional performance testing during construction and requires plans for the subsequent operation and maintenance of building projects.

- Section 1001.3.1.2 regulates the building commissioning process.
- Section 1001.3.1.4 regulates erosion and sedimentation control during construction.
- 1001.1.5 regulates indoor air quality during construction.
- 1001.1.6 regulates moisture control during construction.
- 1001.1.7 addresses pollution from the idling of construction vehicles during construction.
- 1001.1.8 addresses contaminant entry into buildings during construction.
- 1001.1.9 requires radon testing after construction.
- 1001.1.10 requires construction waste management during construction.
- 1001.3.2.3 requires plans for building project operation.
- 1001.3.2.4 requires that a transportation management plan be developed.
- **DPS proposes no changes or amendments to this chapter.**

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Chapter 11 – Normative References

This chapter contains references to standards that are used to regulate materials and methods of construction.

DPS proposes no changes or amendments to this chapter.

Appendices A-K – No proposed changes or amendments.

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Summary

1. As previously discussed, Stakeholder comments will be analyzed and incorporated.
2. Assumption will be zEPI of 50 with 2018 IGCC.
3. Goal is zEPI of “zero” by 2030.
4. zEPI allows straightforward glideslope.
5. Actual implementation in buildings to obtain required zEPI is evolving.



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Questions and Discussion?

