



Sustainable Building Code Developments in Arizona:

International Green Construction Code (IgCC) &
AZ Build Green Coalition

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What are Building Codes?



- Set of rules established by a municipality
- Create standards for constructed objects
- Cities adopt a “family” of codes: energy, commercial construction, single family construction, fire, etc.
- Construction projects must comply to receive permits
- Codes are enforceable
- Mandatory, although some cities adopt additional voluntary codes
- AZ is a “home rule” state: no statewide code is adopted and the local government can select any code or even no code



What's the Difference Between Green Codes & Rating Systems?

CODES

IgCC (and other codes IECC, CalGREEN...)

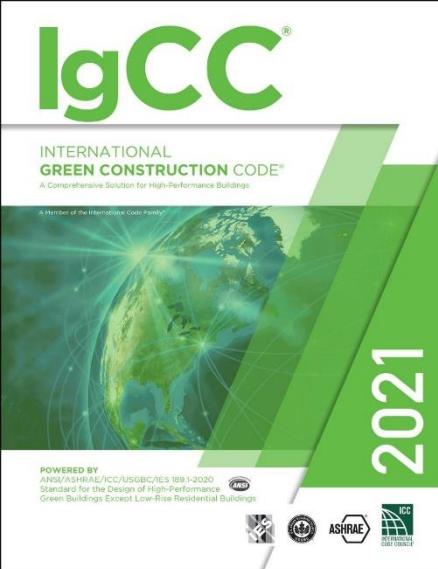
- Baseline/Minimum Standards →
- Set of rules to abide by →
- Model Code →
- Municipality can amend to local conditions or needs →
- Enforceable by municipality →
- Industry driven →

RATING SYSTEMS

LEED, Green Globes, Living Building Challenge (ILFI)

- Aspirational
- Usually optional
- Rating/Certification System
- Set system with pre-requisites and then options to achieve certification
- Reporting done by construction team and verified by third party non-profit organization
- Market driven





Source: International Code Council ICC



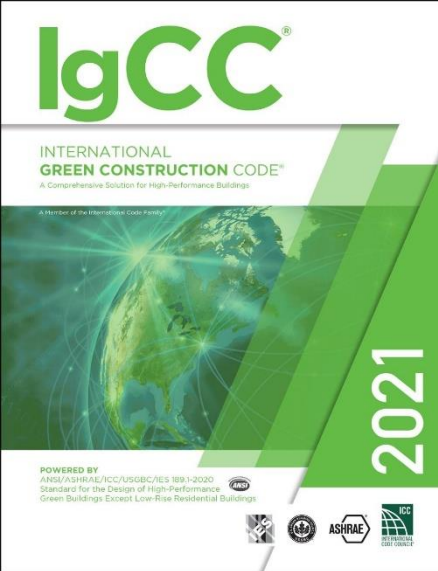
Source: International Code Council ICC

What is IgCC?

International Green Construction Code

- Administered by ICC (International Code Council) family of codes as solution to go beyond base standards. It is a standard for the design of high performance commercial and multi-family green buildings.
- ICC codes are most widely used codes in North America
- ICC codes are in use or adopted in all 50 states
- IgCC is first green construction code with collaboration between main players: ICC, ASHRAE, USGBC, AIA, IES
- Flexible and adaptable to local climate conditions with amendments and prescriptive or performance options
- Municipalities can use portions of code in specific areas or adopt all of IgCC with amendments.





Source: International Code
Council ICC



Source: International Code
Council ICC

What is IgCC: 2021 Structure/Chapters

Chapter 1: Scope & Administration

Chapter 2: Reserved

Chapter 3: Definitions, abbreviations and
acronyms

Chapter 4: Reserved

Chapter 5: Site Sustainability

Chapter 6: Water use efficiency

Chapter 7: Energy efficiency

Chapter 8: Indoor environmental quality

Chapter 9: Materials and resources

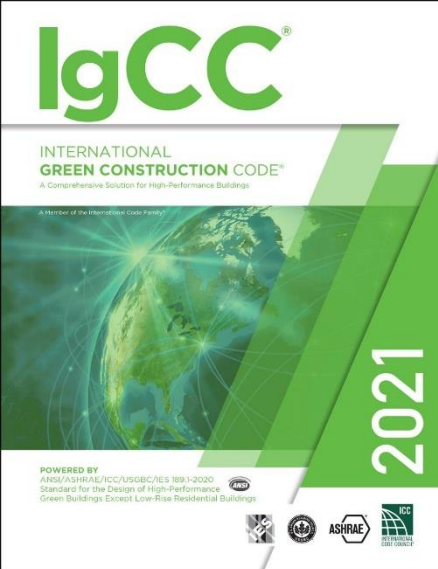
Chapter 10: Construction and plans for
operation

Chapter 11: Normative references

Appendices A-N

**ICC Green Construction Professional Certification Exam*





Source: International Code Council ICC



Source: International Code Council ICC

Municipalities in AZ with IgCC Initiatives

- **Scottsdale:** 2012, 2015 IgCC Voluntary/Mandatory for projects receiving zoning bonus
2021 IgCC Pending Mandatory (exp. adoption June 2022)
- **Tempe:** 2018 IgCC 3 Projects/Working on code adoption
- **Phoenix:** 2012 IgCC Voluntary
- **Gilbert:** IgCC 2018 Voluntary
- **Kayenta:** IgCC 2010 Voluntary
- Multiple other municipalities with interest





Introducing

Non-Profit: AZ Build Green Coalition

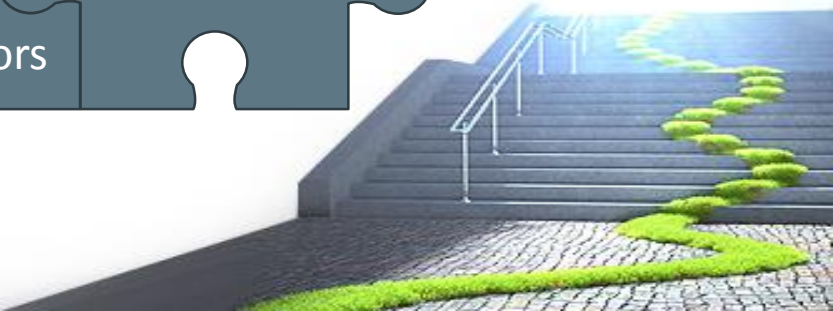
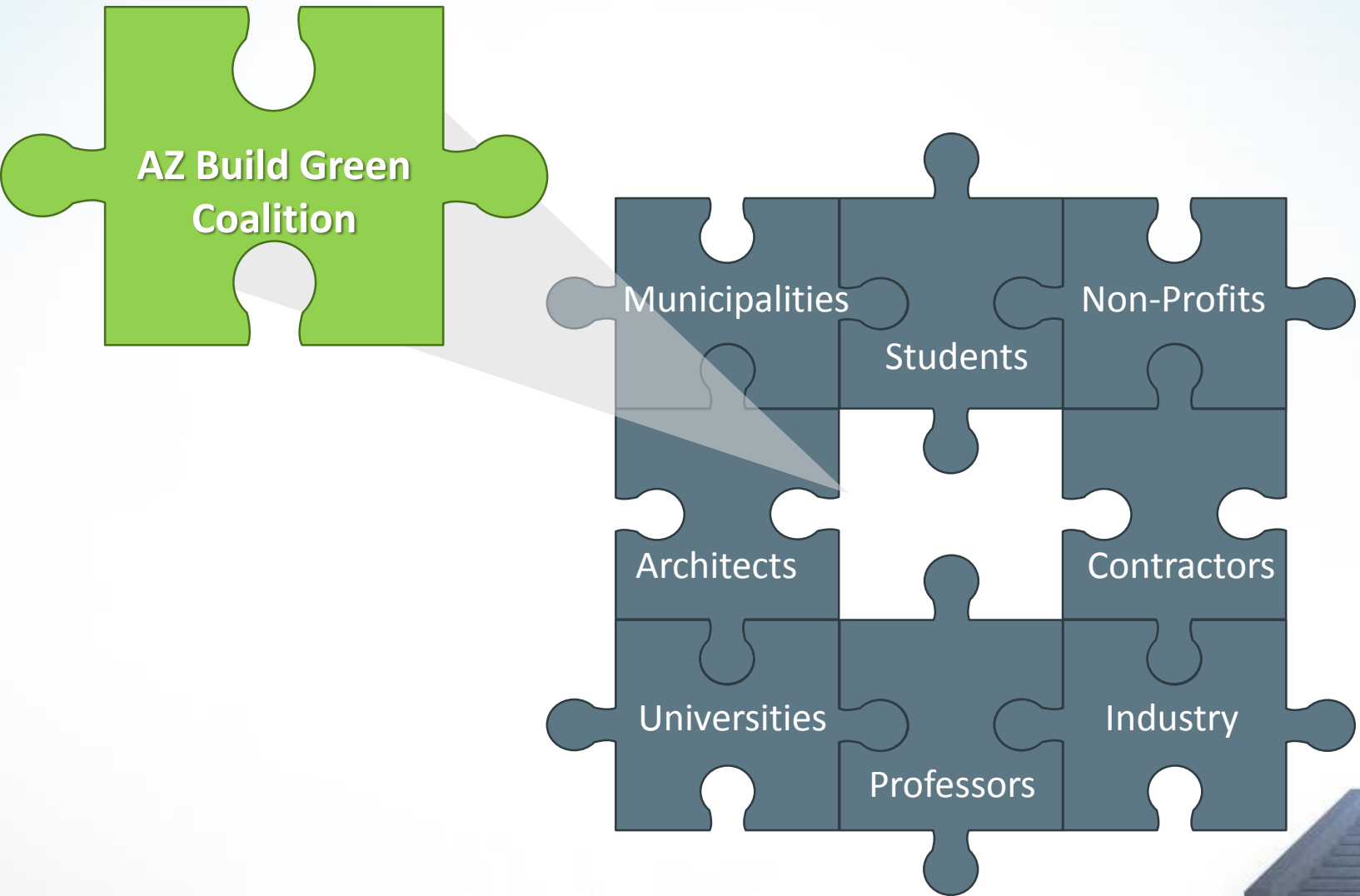
Raising the floor on high performance building practices in Arizona

- Goals:
 - Partnerships
 - Knowledge sharing across municipalities and industry leaders
 - Increased capacity
 - Current updates on new happenings with green code adoptions
- Neutral, non-profit, unbiased resource for green building initiatives specific to the state of Arizona and municipalities within it.
- No political or profitability ties to any particular green building tool.
- Aims to focus and spread information about current green building initiatives within the state, highlighting issues most current and relevant in impact.





Who? Stakeholders & Actors



AZ Build Green Coalition

Raising the floor on high performance building practices in Arizona

How to Participate:

1. Add your name to contact list
2. Gain access to Research Repository **coming soon*
3. Use resources developed by other municipalities in the state to avoid “remaking the wheel”
4. Participate by contributing resources & ideas
5. Follow current events in the green building code and regulatory world on LinkedIn page **coming soon*



Sharing Knowledge and Resources: Two Local Municipalities Using IgCC



- Scottsdale:



28 IgCC Projects



Pending first adoption in nation of IgCC 2021 as mandatory

- Tempe:



Climate Action Plan



Three Municipal IgCC Pilot Projects





Thank you!

*Be a part of raising the floor on our
built environment in Arizona!*

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